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OF THE

UNITED STATES  
DEPARTMENT OF AGRICULTURE

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EXPENDITURES IN THE DEPARTMENT OF AGRICULTURE.

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LETTER

FROM

THE SECRETARY OF AGRICULTURE,

TRANSMITTING

*A detailed statement of expenditures of all appropriations for the Department of Agriculture for the fiscal year ending June 30, 1893.*

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DECEMBER 5, 1893.—Referred to the Committee on Expenditures in the Department of Agriculture and ordered to be printed.

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U. S. DEPARTMENT OF AGRICULTURE,  
OFFICE OF THE SECRETARY,  
Washington, D. C., November 18, 1893.

SIR: In conformity to law I have the honor to present herewith to Congress a detailed statement of the expenditures of all appropriations for the Department of Agriculture for the fiscal year ended June 30, 1893.

Very respectfully,

J. STERLING MORTON,  
*Secretary.*

The SPEAKER OF THE HOUSE OF REPRESENTATIVES.

*Expenditures of the Department of Agriculture for fiscal year ending June 30, 1893.*

## SALARIES.

J. M. Rusk	5,466.66	A. E. Barbour	1,200.00
Edwin Willits	4,500.00	Carrie Harrison	1,200.00
J. Sterling Morton	2,533.33	M. G. Champney	1,200.00
B. F. Fuller	2,500.00	S. M. Huddleston	1,200.00
C. V. Riley	2,500.00	M. A. Mahon	1,200.00
C. Hart Merriam	2,500.00	J. F. James	1,200.00
Thos. Taylor	2,500.00	M. S. Tidd	1,200.00
H. W. Wiley	2,500.00	M. A. Robins	1,200.00
Geo. Wm. Hill	2,500.00	W. R. Scholl	1,200.00
Wm. Saunders	2,500.00	W. H. Prestele	1,200.00
H. E. Van Deman	2,397.00	D. Olszewski	1,200.00
J. W. Stone	2,000.00	Frank Muller	1,200.00
B. T. Galloway	2,000.00	J. C. Wright	1,200.00
B. E. Fernow	2,000.00	Ella Edwards	1,200.00
Geo. Marx	2,000.00	E. E. Ewell	1,159.06
Otto Heidemann	2,000.00	E. G. Runyan	1,101.10
J. R. Dodge	1,875.00	F. E. L. Beal	1,098.90
E. H. Stevens	1,800.00	D. J. Olin	1,061.54
Geo. A. Bacon	1,800.00	E. L. Phillips	1,052.71
F. L. Evans	1,800.00	Henry Phelps	1,050.00
R. E. Smith	1,800.00	D. G. Fairchild	1,050.00
L. O. Howard	1,800.00	F. C. Cox	1,023.06
L. S. Williams	1,800.00	J. K. Wharton	1,000.00
Talma Drew	1,713.02	S. E. Jenkins	1,000.00
Henry Casson	1,708.31	R. B. Blankman	1,000.00
Geo. Vasey	1,687.50	Eugenia Cuthbert	1,000.00
J. P. Peck	1,664.80	Kate Sanders	1,000.00
Jno. P. Church	1,651.70	W. W. Jones	1,000.00
H. B. Cannon	1,600.00	Maggie Taylor	1,000.00
C. D. Campbell	1,600.00	F. E. Carter	1,000.00
F. N. Gregory	1,600.00	E. L. Clarke	1,000.00
Eva H. Quinn	1,600.00	V. M. Peticolas	1,000.00
J. B. Bennett	1,600.00	A. M. Key	1,000.00
J. A. Harvey	1,600.00	Janie A. Bell	1,000.00
B. E. Shepherd	1,600.00	A. C. Baldwin	1,000.00
Geo. R. Simmons	1,600.00	R. S. Clifton	1,000.00
F. R. Van Auken	1,600.00	Ada B. Morrison	1,000.00
S. R. Burch	1,600.00	I. J. Nickols	1,000.00
Allen Dodge	1,600.00	M. C. Stoddart	1,000.00
E. V. O'Brien	1,600.00	Lawrence Gallagher	1,000.00
J. W. Hall	1,600.00	Jennie McCreary	1,000.00
J. N. Rose	1,600.00	Geo. L. Whitmore	1,000.00
Theo. Pergande	1,600.00	Louis C. C. Krieger	1,000.00
T. S. Palmer	1,600.00	James Halley	1,000.00
Wm. A. Taylor	1,600.00	E. L. Hart	991.72
K. P. McElroy	1,600.00	Thora Steineger	959.28
V. Hallenbeck	1,600.00	Jennie N. Ferris	949.45
G. L. Spencer	1,594.53	H. B. Nicholson	949.17
A. K. Fisher	1,500.00	Omä Carr	945.65
Jas. S. Stocking	1,468.10	Clark P. Streator	935.80
A. T. Longley	1,468.10	William K. Krug	902.19
S. A. Benter	1,400.00	H. Larroque	900.00
M. D. Newell	1,400.00	Thos. Riggles	900.00
Edmund Burke	1,400.00	Alice Miller	900.00
M. Helen Burr	1,400.00	A. M. Wright	884.60
Helen Gardner	1,400.00	Chas. Irish	873.61
Louise Breedin	1,400.00	M. E. Skinner	858.42
Carrie L. DuBois	1,400.00	M. A. Goodchild	840.00
M. McCutchen	1,400.00	M. S. Bowie	840.00
Anna Montgomery	1,400.00	Benson Stearns	840.00
Geo. R. Ferguson	1,400.00	F. O. Smalley	840.00
E. G. Latham	1,400.00	S. C. Alexander	840.00
J. M. Holzinger	1,400.00	Amelia Lewis	840.00
F. H. Chittenden	1,400.00	Joseph Williams	840.00
John Dugan	1,400.00	Jacob Adams	840.00
Geo. B. Sudworth	1,400.00	A. F. English	840.00
W. S. D. Haines	1,400.00	C. B. Clark	833.11
Lillie Sullivan	1,400.00	Wm. P. Corsa	832.40
R. Cowing	1,400.00	A. E. Wouffe	832.40
John D. Jones	1,399.97	F. L. J. Boelchter	787.53
A. G. Masius	1,369.60	F. V. Coville	784.72
B. W. Snow	1,350.02	D. MacCuaig	770.83
Nathaniel Shatswell	1,223.09	F. A. Bartholow	770.80
Evie Lyons	1,200.00	L. G. Grigsby	745.35
V. Miller	1,200.00	Wm. H. Joslin	722.23
Alice Henkel	1,200.00	Geo. W. Connolly	720.00
Thos. J. Ray	1,200.00	A. L. Berry	720.00
C. B. Finckel	1,200.00	S. E. Bowen	720.00
S. F. Thomas	1,200.00	J. E. M. Ghant	720.00
C. K. Bragoon	1,200.00	Juliet King	720.00
M. M. Ingram	1,200.00	Thos. Rutledge	720.00
Flora Schmidt	1,200.00	E. W. Whitehead	720.00
S. F. Seaton	1,200.00	Hiram P. Hottenstein	720.00

Expenditures Department of Agriculture for fiscal year ending June 30, 1893—Cont'd.

## SALARIES—Continued.

W. D. Bigelow	700.00	Margaret McCuaig	214.30
A. J. Hodges	690.37	Jacob Simpson	210.97
M. C. Montgomery	674.80	N. H. Egleston	200.03
Thad. Fairfax	660.00	J. W. Purman	190.97
John S. Charleson	633.33	Jas. M. Watts	176.94
A. T. Goshon	630.00	E. T. Giers	171.20
L. T. Harrison	630.00	W. N. Irvin	167.60
Robt. Taylor	628.97	A. E. Donaldson	167.60
Henry A. Robinson	625.00	M. E. McLouth	163.90
E. W. Brown	600.00	H. S. Waller	156.03
Martin Johnson	600.00	Wm. S. Canatsey	142.72
W. L. Gee	600.00	R. M. James	117.30
Jesse E. Tucker	600.00	E. Szegedy	117.00
N. B. Clarvoe	600.00	W. M. Stewart	117.00
Annie Parker	600.00	Blanche White	112.50
M. L. Ward	600.00	J. T. Watlington	107.45
R. B. Baptist	600.00	L. G. Burbridge	100.50
A. A. Wyke	600.00	Robt. Hollohan	96.00
Augustus Diggs	600.00	J. H. Hardy	78.00
W. S. Walter	599.30	F. W. Longley	78.00
Thos. Dorsey	595.16	M. L. Thompson	78.00
D. G. Passmore	583.70	B. G. Hanback	78.00
May Varney	586.10	Wm. Walsh	78.00
Mary G. Marshall	586.10	John Kemp	76.50
F. H. Hitchcock	565.30	Annie Tunstall	75.00
Nena Crain	549.40	Geo. W. Pancoast	72.06
A. M. Hillyer	508.63	Michael O'Brien	58.00
K. A. Mayo	498.90	William Wilcox	52.74
B. H. Enzorf	480.00	A. G. Guthridge	50.00
Susan Ruppert	474.28	Frank M. Roselle	50.00
C. W. Bracey	466.30	Mary Brown	47.00
Alex. King	465.00	Annie Bucher	39.00
E. H. Craig	454.15	John Hardy	39.00
Chas. A. Stone	442.00	W. H. Parsons	39.00
M. B. Paine	435.00	W. E. Robinson	30.43
A. H. Brooks	422.00	Geo. Litzenberg	30.00
H. L. Vining	413.90	W. H. Ward	29.67
Missouri Gerard	379.34	Alice Flynn	19.50
Emily Werner	370.50	Geo. E. Sullivan	18.00
Hubert Edson	361.45	Jno. N. Armstrong	18.00
S. H. Apperson	351.70	Katie Fitch	17.00
D. H. Hall	350.00	Thos. S. Stelle	16.00
E. A. Southworth	350.00	Sam'l. S. Strachan	16.00
Frank G. Cleary	337.68	Aaron Meredith	15.00
M. E. Fagan	335.20	W. E. Morgan	14.00
H. R. Smedes	317.30	Mamie Smith	12.00
James W. Pollock	309.17	Sue F. Gruder	6.52
Annie E. Bray	305.63	M. D. Shaw	4.50
William H. Johnson	300.00	Sam'l. Lee	3.00
Maria Mead	300.00	Geo. H. Curtis	1.50
Lizzie Rollins	300.00	Thos. Wise	1.50
Robt. Burns	276.00	Wm. Bird	1.50
James M. Coombs	268.00	John Brown	1.50
J. E. Dillinger	263.30	William Crawford	1.50
Della E. Wilcox	253.50	Robt. Scriber	1.50
Mary A. Mack	250.55	John Coates	1.50
E. E. Fealy	250.00	Joe Sanzone	1.00
W. H. Moor	240.00		
Geo. J. Hall	231.00	Total	253, 896.80

## INVESTIGATING FOREIGN DEMANDS FOR UNITED STATES AGRICULTURAL PRODUCTS.

Date.	Name.	Nature of payment.	Total.
1892.			
Aug. 20	C. J. Murphy	Salary for July	\$210.60
Sept. 13	do	Salary for August	210.60
30	do	Salary for September	203.80
			625.00
		Total first quarter	
Oct. 31	C. J. Murphy	Salary for October	210.60
Nov. 23	do	Expenses for September	62.47
23	do	Expenses, August and September	77.86
23	do	Expenses, July	84.36
30	do	Salary for November	203.80
Dec. 13	C. Frank Dewey	do	203.80
13	do	Salary for October	210.60

*Expenditures Department of Agriculture for fiscal year ending June 30, 1893—Cont'd.*  
 INVESTIGATING FOREIGN DEMANDS FOR UNITED STATES AGRICULTURAL PRODUCTS—Continued.

Date.	Name.	Nature of payment.	Total.
1892.			
Dec. 14	C. J. Murphy .....	Expenses for October .....	\$105.08
20	Glogowski & Sohn .....	Typewriter, etc .....	113.57
22	C. J. Murphy .....	Expenses, November .....	69.46
31	do .....	Salary for December .....	210.60
31	C. Frank Dewey .....	do .....	210.60
	Total second quarter .....		1,762.82
1893.			
Jan. 23	C. Frank Dewey .....	Expenses in October .....	14.13
Feb. 1	C. J. Murphy .....	Expenses in December .....	158.64
	do .....	Salary in January .....	215.30
10	Ignatius I. Murphy .....	do .....	103.30
21	C. J. Murphy .....	Expenses, Jan. 1 to 20 .....	115.90
28	Ignatius I. Murphy .....	Salary for February .....	93.40
	C. J. Murphy .....	do .....	194.40
Mar. 7	C. Frank Dewey .....	Salary for January .....	215.30
14	do .....	Expenses, January .....	28.76
	do .....	Expenses in November and December .....	143.49
23	C. J. Murphy .....	Expenses in February .....	131.66
31	Ignatius I. Murphy .....	Salary for March .....	103.30
	C. J. Murphy .....	do .....	215.30
	Total third quarter .....		1,906.68
Apr. 11	C. Frank Dewey .....	Expenses in February .....	3.63
	do .....	Salary for March .....	215.30
28	Glogowski & Sohn .....	Mimeograph, etc .....	11.45
30	C. J. Murphy .....	Salary for April .....	206.00
	C. Frank Dewey .....	Expenses in March .....	5.20
May 8	Ignatius I. Murphy .....	Salary for April .....	98.90
15	C. J. Murphy .....	Expenses for March .....	207.23
	do .....	Expenses November 9, German income tax .....	24.99
22	do .....	Expenses in April .....	241.86
24	Rasmus Kliem .....	Maize banquet .....	128.18
31	C. J. Murphy .....	Salary for May .....	213.00
	do .....	do .....	102.20
June 23	do .....	Traveling expenses, May 30, June 1 and 2 .....	79.33
30	do .....	Salary for June .....	98.90
	C. J. Murphy .....	do .....	206.00
	Total fourth quarter .....		1,842.17
	<i>Supplemental.</i>		
July 1	John Mattes, jr .....	Salary, Apr. 15 to June 30 .....	528.89
3	do .....	Expenses in April, May, and June .....	153.55
20	C. J. Murphy .....	Expenses in May .....	98.68
Aug. 7	do .....	Expenses in June .....	176.00
Sept. 19	C. Ferslew & Co .....	Stationery .....	103.07
Oct. 17	Robt. Wahl .....	Pamphlet on use of Indian corn for manufacturing beer .....	350.00
	Total .....		1,410.19

## RECAPITULATION.

First quarter .....		\$625.00
Second quarter .....		1,762.82
Third quarter .....		1,906.68
Fourth quarter .....		1,842.17
Supplemental .....		1,410.19

Total .....

7,546.86

## AGRICULTURAL MAPS AND CHARTS.

Date.	Name.	Nature of payment.	Total.
1893.			
Mar. 18	The Standard Engraving Co .....	Engraving plate .....	\$2.40
23	Leopold Olszewski .....	Making map .....	175.00
May 17	The Norris Peters Co .....	5,000 copies map of Wyoming .....	95.00
	Total .....		272.40

## EXPENDITURES IN DEPARTMENT OF AGRICULTURE.

5

*Expenditures Department of Agriculture for fiscal year ending June 30, 1893—Cont'd.*

## EXPERIMENTS IN THE PRODUCTION OF RAINFALL.

Date.	Name.	Nature of payment.	Total.
1892.			
Aug. 30	Thos. Cook & son .....	Transportation .....	\$47.25
Sept. 12	John T. Ellis .....	Salary and expenses, Aug. 22 to Sept. 9 .....	119.82
13	John H. King .....	Traveling expenses in August .....	50.45
22	Carl E. Myers .....	Gas balloons .....	400.00
28	.....do.....	Balloon .....	300.00
30	Chicago and Northwestern Rwy. Co.	Transportation, Ellis <i>et al.</i> , August .....	26.77
30	John T. Ellis .....	Salary and expenses, September .....	92.65
	Total first quarter .....		1,036.94
Oct. 3	George E. Casler .....	Salary and expenses, September .....	36.35
10	Wisconsin Central Lines, Northern Pacific R. R. Co., lessee .....	Transportation, Ellis, August .....	11.50
10	The Pennsylvania Salt Manufacturing Co. .....	Vitriol .....	110.00
10	I. L. and D. S. Riker .....	Potash .....	165.20
13	Robert G. Dyrenforth .....	Services and expenses, August and September .....	401.05
15	Pennsylvania R. R. Co. .....	Transportation, Dyrenforth <i>et al.</i> .....	30.00
15	Pennsylvania Company .....	Transportation, King, August .....	17.50
26	R. C. M. Burton .....	Repairs to awning for balloons .....	3.50
27	John T. Ellis .....	Salary and expenses, Oct. 1-15 .....	132.60
29	John H. King .....	Traveling expenses, September .....	51.20
Nov. 2	Willis Holly .....	Eclipse blower .....	15.75
2	West Shore Railroad .....	Transportation, Casler, September .....	11.22
2	Chicago Northwestern Rwy. Co. .....	Transportation, King, September .....	14.05
2	Lake Shore and Michigan Southern Rwy. .....	Transportation, Ellis, August .....	22.25
2	Chicago, St. Paul, Minneapolis and Omaha Rwy. .....	Transportation, Ellis and King, August .....	28.06
2	William H. Krug .....	Salary and expenses, Oct. 19 to 31 .....	44.64
4	Marcellina J. Syphax .....	Milk, etc., used at Fort Myer .....	10.80
4	Luman M. Ellis .....	Services, Sept. 28 to Oct. 31, and expenses .....	79.55
4	John T. Ellis .....	Salary and expenses, Oct. 17 to 31 .....	123.63
4	Claude O. A. Rosell .....	Expenses, Sept. 30 to Oct. 31 .....	53.28
5	Eugene Budd .....	Labor in October .....	6.00
5	Samuel Budd .....	Labor in October and November .....	26.50
5	Walter Williams .....	Labor in October .....	36.00
8	Arthur Goings .....	Hoops, etc., for tank .....	5.00
8	W. H. Gaskins .....	Barrels .....	5.25
8	Duncanson Bros. .....	Awning cloth .....	11.43
8	S. S. Cissel .....	Rent of apparatus, etc. .....	53.50
8	Geo. W. Knox Express .....	Freight transportation, October .....	61.80
9	The Ansonia Brass and Copper Co. .....	Wire .....	12.76
9	C. B. Hewitt & Bros. .....	Rolls and rope .....	123.28
11	The Smith Electrical Works .....	Platinum exploders .....	137.50
17	Wheatley Bros. .....	Lumber .....	43.68
19	F. P. May & Co. .....	Fuse, caps, scales, etc. .....	6.00
19	E. Morrison Paper Co. .....	Paper .....	6.80
22	George E. Casler .....	Salary and expenses, October .....	100.05
28	Chicago, Milwaukee and St. Paul Railroad Co. .....	Transportation, King, September .....	17.60
28	.....do.....	.....do.....	25.20
Dec. 2	David H. Mead .....	Salary for November .....	52.00
12	Adams Express Co. .....	Express on balloons .....	5.95
17	Robt. G. Dyrenforth .....	Services, November .....	260.00
17	.....do.....	Services and expenses, October .....	287.25
24	John T. Ellis .....	Salary and expenses for November, and livery Oct. 27. .....	192.00
	Total second quarter .....		2,834.68
1893.			
Feb. 4	Pennsylvania Company .....	Transportation, Dyrenforth and King, October. .....	35.00
4	Baltimore and Ohio R. R. Co. .....	Transportation, King, September .....	17.00
4	.....do.....	Transportation, Ellis <i>et al.</i> .....	20.00
4	Pennsylvania R. R. Co. .....	Transportation, Ellis, October .....	6.00
4	.....do.....	Transportation, Dyrenforth <i>et al.</i> .....	63.00
6	People's Dispatch Co. .....	Freight charges, October .....	.6.23
6	W. B. Moses & Sons .....	Use of cots .....	4.50
6	United States Express Co. .....	Transportation in December .....	5.45
6	Adams Express Co. .....	Transportation in October .....	5.85
8	Geo. W. Knox Express .....	Freight on soda and potash .....	1.82
8	.....do.....	Freight on oil .....	2.16
8	.....do.....	Freight and drayage in October and November. .....	39.50

## EXPENDITURES IN DEPARTMENT OF AGRICULTURE.

*Expenditures Department of Agriculture for fiscal year ending June 30, 1893—Cont'd.*

## EXPERIMENTS IN THE PRODUCTION OF RAINFALL—Continued.

Date.	Name.	Nature of payment.	Total.
1893.			
Feb. 9	Luman M. Ellis	Salary and expenses in November	\$13.40
	The Ansonia Brass and Copper Co.	Office wire	14.52
9	J. W. Bird	Livery	15.00
9	A. Lawrence Rotch	Insulators	16.00
9	W. O. Berry	Plumbing	23.58
9	George E. Casler	Salary, Nov. 1 to 5	25.00
9	Chas. G. Rickert	Materials for manufacturing gas, etc.	29.53
9	David H. Mead	Salary, Dec. 1 to 16	30.00
9	Robt. Boyd	Hardware	88.74
9	G. W. Offutt	Supplies	100.03
9	John T. Ellis	Salary and expenses, December	190.25
9	John Dugan	Livery in October and November	96.00
17	Tschiffely & Evans	Potash, etc	3.15
17	Robt. Leitch & Sons	Pipe, wrenches, etc	49.60
Mar. 1	Geo. W. Knox Express	Hauling	16.50
10	People's Dispatch Co.	Transportation and storage	40.66
		Total third quarter	958.47
Apr. 26	Meyer Brothers Drug Co.	Chlor. calcium and 1 box	6.10
26	William H. King	Salary, 2 days in December, 1892; car fare, November, etc.	7.02
June 28	Carl E. Myers	Labor, Nov. 9 to 14, 1892	39.45
		Total fourth quarter	52.57
		<i>Supplemental.</i>	
July 31	People's Storage Co.	Storage, Jan. 23 to June 27, 1893	30.93
		Total	30.93

## RECAPITULATION.

First quarter		\$1,036.94
Second quarter		2,834.68
Third quarter		958.47
Fourth quarter		52.57
Supplemental		30.93
Total		4,913.59

## IRRIGATION INVESTIGATIONS.

Date.	Name.	Nature of payment.	Total.
1892.			
July 31	Frank Blaisdell <i>et al.</i>	Salaries for July	\$235.87
Aug. 20	Mortimer A. Downing	Index	100.00
31	Frank Blaisdell <i>et al.</i>	Salaries for August	286.40
Sept. 9	Frank Blaisdell	Services, Sept. 1 to 6	29.35
17	do	Services, Sept. 7 to 15	44.02
30	A. F. Wood	Salary for September	130.40
		Total first quarter	826.04
Oct. 8	Frank Blaisdell	Services, Sept. 16 to Oct. 6	102.72
31	Frank Blaisdell <i>et al.</i>	Salaries for October	257.08
Nov. 30	Frank Blaisdell	Services, Nov. 16 to 30	73.37
30	Frank Blaisdell <i>et al.</i>	Salaries in November	301.57
Dec. 31	do	Salaries in December	387.50
		Total second quarter	1,122.24
1893.			
Jan. 31	A. F. Wood	Salary for January	137.80
Feb. 28	Otis A. Critchett	Salary, Dec. 28 to Jan. 31, 1893	225.80
28	do	Salary for February	200.00
28	F. L. Sizer <i>et al.</i>	Salaries for February	214.68
Mar. 3	Jas. I. Christianity	Salary for January	103.30
9	Otis A. Critchett	Expenses, Jan. 30 to Feb. 2	12.10
24	Fred. A. Schmidt	Stationery	11.55

## EXPENDITURES IN DEPARTMENT OF AGRICULTURE.

7

Expenditures Department of Agriculture for fiscal year ending June 30, 1893—Cont'd.

## IRRIGATION INVESTIGATIONS—Continued.

Date.	Name.	Nature of payment.	Total.
1893.			
Mar. 29	Denver and Rio Grande R. R. Co.	Transportation, Critchett, February	\$40.00
31	F. L. Sizer <i>et al.</i>	Salaries for March	234.65
	Total third quarter		1,143.43
Apr. 12	O. A. Critchett	Salary, Mar. 8 to Apr. 7	201.50
15	Geo. P. Mason	Labor, April 1 to 15	25.00
30	F. L. Sizer <i>et al.</i>	Salaries for April	476.32
May 3	Lake Shore and Michigan Southern Rwy. Co.	Transportation, Critchett, January	37.90
31	F. L. Sizer	Salary, May 1 to 30	206.04
31	A. F. Wood, <i>et al.</i>	Salaries for May	320.40
June 2	O. A. Critchett	Traveling expenses, March to May 12	12.45
22	Woodward & Lothrop	Sheeting	1.00
30	Chas. W. Irish <i>et al.</i>	Salaries for June	515.80
	Total fourth quarter		1,796.41
	Supplemental.		
July 21	Denver and Rio Grande R. R. Co.	Transportation, Critchett, in May	42.55
	Total		42.55

## RECAPITULATION.

First quarter		\$826.04
Second quarter		1,122.24
Third quarter		1,143.43
Fourth quarter		1,796.41
Supplemental		42.55
Total		4,930.67

## COLLECTING AGRICULTURAL STATISTICS.

Date.	Name.	Nature of payment.	Total.
1892.			
July 12	Washington City post-office	Postage stamps	\$1,100.00
31	E. T. Peters <i>et al.</i>	Salaries for July	3,330.35
Aug. 3	Edmund J. Moffatt	Salary and expenses, July	223.37
6	Willett & Gray	Subscription to Sugar Trade Journal, 1 year	15.00
8	Washington City post-office	Postage stamps	2,400.00
11	Julius Ulke, jr	Chart	20.00
22	A. W. Ferguson	Translating, etc.	50.00
31	E. T. Peters <i>et al.</i>	Salaries for August	3,254.65
Sept. 5	Shoe and Leather Reporter	One year's subscription	3.50
12	John C. Parker	One ream paper	8.00
16	Mary A. Dolan	Services, Sept. 1 to 4	7.17
22	Ignatius I. Murphy	Salary for July	101.10
22	do	Salary for August	101.10
28	Wyckoff, Seamans & Benedict	Repairing typewriters	8.77
30	Ignatius I. Murphy	Salary for September	97.80
30	George Husmann	Salary, July 1 to Sept. 30	300.00
30	S. D. Fisher	do	300.00
30	George T. Powell	do	300.00
30	Daniel L. Flickinger	do	300.00
30	Jno. B. Conner	do	300.00
30	Henry C. Adams	do	300.00
30	Levi Chubbuck	do	250.00
30	Robert W. Furnas	do	250.00
30	Thos. G. Peachy	do	225.00
30	Nat Q. Henderson	do	225.00
30	R. J. Redding	do	225.00
30	Napoleon Underwood	do	225.00
30	Samuel L. Boardman	do	200.00
30	R. H. Thomas	do	200.00
30	Franklin Wells	do	200.00
30	Charles T. Curtiss	do	200.00
30	T. R. Purnell	do	180.00
30	E. W. Longshore	do	180.00
30	Nicholas McDowell	do	180.00
30	Joseph G. Brown	do	150.00

*Expenditures Department of Agriculture for fiscal year ending June 30, 1893—Cont'd.*

COLLECTING AGRICULTURAL STATISTICS—Continued.

Date.	Name.	Nature of payment.	Total.
1892.			
Sept. 30	William F. F. Bushnell.....	Salary, July 1 to Sept. 30.....	\$150.00
30	E. A. Slack .....	do .....	150.00
30	R. D. Baugh .....	do .....	150.00
30	John Karr .....	do .....	150.00
30	James M. Adams .....	do .....	150.00
30	W. W. Cooke .....	do .....	150.00
30	T. S. Gold .....	do .....	150.00
30	Samuel S. Faris .....	do .....	150.00
30	James A. Hayden .....	do .....	150.00
30	Thomas H. Reeve .....	do .....	150.00
30	James H. Lane .....	do .....	150.00
30	L. A. Ransom .....	do .....	150.00
30	A. H. Manville .....	do .....	150.00
30	Franklin Dye .....	do .....	150.00
30	John H. Stevens .....	do .....	150.00
30	W. M. Scott .....	do .....	150.00
30	William Nelson .....	do .....	150.00
30	John R. Reavils .....	do .....	150.00
30	Harrison R. Kincaid .....	do .....	150.00
30	Robert H. Howey .....	do .....	150.00
30	Charles D. Poston .....	do .....	150.00
30	Daniel B. Stewart .....	do .....	150.00
30	Arthur S. Fitz .....	do .....	150.00
30	E. M. Thoman <i>et al</i> .....	Salaries for September .....	2,971.00
	Total statistics .....		21,731.81
	Investigating foreign demands .....		625.00
	Total first quarter .....		22,356.81
Oct. 1	Frank H. Drown .....	Salary, July 1 to Sept. 30 .....	180.00
1	Washington City post-office .....	Postage stamps .....	600.00
3	Geo. W. Knox Express .....	Freight charges, July .....	1.68
10	Chesapeake and Potomac Telephone Co. ....	Telephone rent, July 1 to Sept. 30 .....	15.00
15	Edmund J. Moffat .....	Traveling expenses, October .....	10.75
15	..... do .....	Traveling expenses, September .....	101.43
15	..... do .....	Salary, August and September .....	414.40
27	J. Baumgarten & Son .....	Stamps .....	5.50
31	Ignatius Murphy .....	Salary, October .....	101.10
31	E. T. Peters <i>et al</i> .....	Salaries, October .....	3,055.40
Nov. 1	Edmund J. Moffat .....	Salary, October .....	210.10
14	John C. Parker .....	Tabulating paper .....	60.37
26	Wm. Ballantyne's Sons .....	Paper .....	48.00
26	..... do .....	Manila envelopes .....	260.54
26	B. W. Snow .....	Expenses, November .....	13.05
28	John C. Parker .....	Paper .....	1.80
28	J. R. Dodge .....	Traveling expenses, November .....	45.54
30	Ignatius I. Murphy .....	Salary for November .....	97.80
30	E. T. Peters <i>et al</i> .....	Salaries for November .....	2,953.67
Dec. 5	The Railroad Age and Northwestern Railroader .....	Subscription, July 1, 1892, to July 1, 1893 .....	4.00
5	Edwin B. Dennis .....	Calculator for percentages .....	40.00
7	Washington City post-office .....	Postage stamps .....	540.00
15	Wm. Ballantyne's Sons .....	Envelopes .....	237.00
19	Annie E. Bray .....	Salary, Nov. 29 and 30 .....	4.57
21	John C. Parker .....	Stationery .....	206.75
31	Ignatius I. Murphy .....	Salary for December .....	101.10
31	Merritt C. Ring .....	Salary, December .....	197.01
31	S. D. Fisher .....	Salary, Oct. 1 to Dec. 31 .....	300.00
31	Jno. B. Conner .....	..... do .....	300.00
31	Daniel L. Flickinger .....	..... do .....	300.00
31	George Husmann .....	..... do .....	300.00
31	Geo. T. Powell .....	..... do .....	300.00
31	Henry C. Adams .....	..... do .....	300.00
31	Robert W. Furnas .....	..... do .....	250.00
31	Levi Chubbuck .....	..... do .....	250.00
31	Nat Q. Henderson .....	..... do .....	225.00
31	Napoleon Underwood .....	..... do .....	225.00
31	Thomas G. Peachy .....	..... do .....	225.00
31	R. J. Redding .....	..... do .....	225.00
31	Franklin Wells .....	Services, Oct. 1 to Dec. 31 .....	200.00
31	Samuel L. Boardman .....	..... do .....	200.00
31	Chas. F. Curtiss .....	..... do .....	200.00
31	R. H. Thomas .....	..... do .....	200.00
31	E. W. Longshore .....	..... do .....	180.00
31	T. R. Purnell .....	..... do .....	180.00
31	Nicholas McDowell .....	..... do .....	180.00
31	Frank H. Drown .....	..... do .....	180.00

## EXPENDITURES IN DEPARTMENT OF AGRICULTURE.

9

Expenditures Department of Agriculture for fiscal year ending June 30, 1893—Cont'd.

## COLLECTING AGRICULTURAL STATISTICS—Continued.

Date.	Name.	Nature of payment.	Total.
1892.			
Dec. 31	William F. F. Bushnell	Services, Oct. 1 to Dec. 31	\$150.00
31	Joseph G. Brown	do	150.00
31	John R. Reavis	do	150.00
31	Robt. H. Howey	do	150.00
31	Thomas H. Reeves	do	150.00
31	William Nelson	do	150.00
31	James M. Adams	do	150.00
31	James H. Lane	do	150.00
31	W. W. Cooke	do	150.00
31	Franklin Dye	do	150.00
31	Harrison R. Kincaid	do	150.00
31	E. A. Slack	do	150.00
31	W. M. Scott	do	150.00
31	R. D. Baugh	do	150.00
31	L. A. Ransom	do	150.00
31	James A. Hayden	do	150.00
31	T. S. Gold	do	150.00
31	Samuel S. Faris	do	150.00
31	John H. Stevens	do	150.00
31	A. H. Manville	do	150.00
31	Joseph A. Beal	Services, Oct. 5 to Dec. 31	143.52
31	Daniel B. Stewart	Services, Oct. 1 to Dec. 31	100.00
31	Arthur S. Fitz	do	100.00
31	Chas. D. Poston	Services, Oct. 1 to Nov. 30	99.50
31	E. T. Peters <i>et al.</i>	Salaries for December	3,324.52
	Total statistics		20,994.60
	Total investigating for- eign demands, etc.		1,762.82
	Total second quarter		22,757.42
1893.			
Jan. 3	Washington City post-office	Postage stamps	3,000.00
4	R. J. Redding	Expenses in December	6.55
9	John Karr	Services, Oct. 1 to Dec. 31	150.00
10	Chesapeake and Potomac Tele- phone Co.	Telephone rent, Oct. 1 to Dec. 31	15.00
10	John C. Parker	Stationery	407.48
14	W. B. Nassau	Services, Dec. 30 and 31	12.00
16	Baltimore and Ohio R. R. Co.	Transportation	10.00
19	Photo-Engraving Co.	Engraving plates	11.30
23	Merritt C. Ring	Expenses, Dec. 1 to 6	45.98
23	do	Expenses, Dec. 6 to 15	113.75
31	Library Building	Tin trays with blocks, etc	18.75
31	E. T. Peters <i>et al.</i>	Salaries for January	3,606.50
Feb. 1	W. B. Nassau	Salary for January	156.00
3	Merritt C. Ring	Express in December, 1892, and January, 1893	76.59
3	do	Salary for January	215.30
15	Wm. Ballantyne's Sons	Envelopes	316.00
16	John C. Parker	Manila envelopes	435.00
27	Geo. T. Powell	Expenses for January	23.78
28	Merritt C. Ring	Salary for February	194.40
28	Nat. Q. Henderson	Salary for January and February	147.50
28	E. T. Peters <i>et al.</i>	Salaries for February	3,219.60
Mar. 1	Wm. E. Lewis	Drawing paper	70.50
1	W. B. Nassau	Salary for February	144.00
8	John C. Parker	Remodeling typewriter	45.00
8	The Norris Peters Co.	Mounting drawing paper	20.00
9	United States Express Co.	Transportation, Jan. 23	1.30
11	John C. Parker	Library Journal, January to June 30, 1893	2.50
18	Frank Blasdell	Making map	40.00
31	George Husmann	Salary, Jan. 1 to Mar. 31	300.00
31	S. D. Fisher	do	300.00
31	Jno. B. Conner	do	300.00
31	Daniel L. Flickinger	do	300.00
31	Geo. T. Powell	do	300.00
31	Robt. W. Furnas	do	250.00
31	Levi Chubbuck	do	250.00
31	Napoleon Underwood	do	225.00
31	Thos. G. Peachy	do	225.00
31	R. J. Redding	do	225.00
31	Franklin Wells	do	200.00
31	Saml. L. Boardman	do	200.00
31	Chas. F. Curtiss	do	200.00
31	R. H. Thomas	do	200.00
31	Henry C. Adams	do	200.00
31	E. W. Longshore	do	180.00
31	Nicholas McDowell	do	180.00

*Expenditures Department of Agriculture for fiscal year ending June 30, 1893—Cont'd.*

## COLLECTING AGRICULTURAL STATISTICS—Continued.

Date.	Name.	Nature of payment.	Total.
1893.			
Mar. 31	Frank H. Drown	Salary, Jan. 1 to March 31	\$180.00
31	T. R. Purnell	do	180.00
31	William F. F. Bushnell	do	150.00
31	Joseph G. Brown	do	150.00
31	John R. Reavis	do	150.00
31	W. M. Scott	do	150.00
31	A. H. Manyville	do	150.00
31	William Nelson	do	150.00
31	Harrison R. Kincaid	do	150.00
31	L. A. Ransom	do	150.00
31	John Karr	do	150.00
31	R. D. Baugh	do	150.00
31	W. W. Cooke	do	150.00
31	Robt. H. Howey	do	150.00
31	John H. Stevens	do	150.00
31	James A. Hayden	do	150.00
31	Franklin Dye	do	150.00
31	T. S. Gold	do	150.00
31	James M. Adams	do	150.00
31	Thos. H. Reeves	do	150.00
31	Samuel S. Faris	do	150.00
31	James H. Lane	do	150.00
31	Joseph A. Beal	do	150.00
31	Daniel B. Stewart	do	10.00
31	Arthur S. Fitz	do	100.00
31	Nat. Q. Henderson	Salary for March	77.50
31	Merritt C. Ring	do	215.30
31	E. T. Peters <i>et al.</i>	Salaries for March	3,672.46
	Total statistics		24,215.04
	Total maps and charts		177.40
	Total investigating foreign demands, etc.		1,906.68
	Total third quarter		26,299.12
Apr. 1	W. B. Nassau	Salary for March	162.00
8	The Chesapeake and Potomac Telephone Co.	Telephone rent, Jan. 1 to Mar. 31, 1893	15.00
12	E. A. Slack	Salary, Jan. 1 to Mar. 15	123.30
13	W. H. Veerhoff	Moldings	89.35
17	Agatha Wheeler	Salary, Apr. 1 to 4	8.00
26	Asa S. Mercer	Salary, Mar. 18 to 31	23.33
28	E. M. Thoman	Salary, Apr. 1 to 15	74.18
29	W. B. Nassau	Salary for April	150.00
30	E. T. Peters <i>et al.</i>	Salaries for April	3,206.50
May 1	John Karr	Salary, Apr. 1 to 15	24.73
2	William Brown & Co. (Limited)	Stationery, etc.	12.06
2	A. L. Davis	Salary, Jan. 1 to 4	13.30
5	L. A. Ransom	Salary for April	49.50
13	Merritt C. Ring	do	206.00
13	do	Expenses December to April	7.12
16	Photo-Engraving Co.	Engraving plates	1.70
16	I. E. Beerbohm	Subscription Corn Trade List, 3 mos.	7.29
17	United States Express Co.	Transportation, Apr. 6	1.00
18	Wm. F. F. Bushnell	Salary for April	49.50
31	Franklin Wells	Salary for Apr. 1 to May 15	98.87
31	Thos. G. Peachy	do	111.29
31	R. H. Thomas	Salary for Apr. 1 to May 31	134.10
31	W. B. Nassau	Salary for May	162.00
31	E. T. Peters <i>et al.</i>	Salaries for May	3,403.29
June 2	Levi Chubbuck	Salary, Apr. 1 to May 31	167.60
5	Nat. Q. Henderson	Salary, Apr. 1 to May 18	118.71
8	George Husmann	Salary, Apr. 1 to May 31	201.10
15	W. E. Baldwin	Salary, June 1 to 15	57.69
20	United States Express Co.	Express transportation, May	.30
21	L. A. Ransom	Salary for May	51.00
24	Joseph A. Beal	Salary, Apr. 1 to May 31	100.50
27	Photo-Engraving Co.	Photo-engraved plate	1.70
30	Geo. T. Powell	Salary, Apr. 1 to June 30	300.00
30	Daniel L. Flickinger	do	300.00
30	Frank A. Dilatush	do	300.00
30	Martin E. Argo	Salary Apr. 8 to June 30	276.92
30	Robt. W. Furnas	Salary Apr. 1 to June 30	250.00
30	Napoleon Underwood	do	225.00
30	R. J. Redding	do	225.00
30	Samuel L. Boardman	do	200.00
30	Charles F. Curtiss	do	200.00
30	L. M. Fay	do	200.00

## EXPENDITURES IN DEPARTMENT OF AGRICULTURE. 11

Expenditures Department of Agriculture for fiscal year ending June 30, 1893—Cont'd.

## COLLECTING AGRICULTURAL STATISTICS—Continued.

Date.	Name.	Nature of payment.	Total.
1893.			
June 30	Frank H. Drown .....	Salary, Apr. 1 to June 30 .....	\$180.00
30	Nicholas McDowell .....	do .....	180.00
30	E. W. Longshore .....	do .....	180.00
30	Jno. C. Tipton .....	Salary Apr. 12 to June 30 .....	158.20
30	Harrison R. Kincaid .....	Salary Apr. 1 to June 30 .....	150.00
30	John R. Reavis .....	do .....	150.00
30	William Nelson .....	do .....	150.00
30	W. M. Scott .....	do .....	150.00
30	Joseph G. Brown .....	do .....	150.00
30	A. H. Manville .....	do .....	150.00
30	T. S. Gold .....	do .....	150.00
30	James H. Lane .....	do .....	150.00
30	James A. Hayden .....	do .....	150.00
30	Franklin Dye .....	do .....	150.00
30	James M. Adams .....	do .....	150.00
30	John H. Stevens .....	do .....	150.00
30	R. D. Baugh .....	do .....	150.00
30	Robt. H. Howey .....	do .....	150.00
30	Jno. J. Cornwell .....	do .....	150.00
30	Geo. L. Fryer .....	do .....	150.00
30	A. S. Mercer .....	do .....	150.00
30	Dandridge McRae .....	Salary, Apr. 16 to June 30 .....	125.23
30	J. C. Featherston .....	Salary, May 16 to June 30 .....	113.76
30	Burroughs Abbott .....	Salary, May 1 to June 30 .....	100.50
30	Nathan Pratt .....	Salary, Apr. 1 to June 30 .....	100.00
30	Arthur S. Fitz .....	do .....	100.00
30	Edwin F. Smith .....	Salary, June 1 to June 30 .....	98.90
30	W. P. Hancock .....	Salary, May 23 to June 30 .....	96.45
30	Elias S. Garver .....	Salary, June 1 to June 30 .....	82.40
30	S. S. Neely .....	do .....	65.90
30	I. Washington Watts .....	do .....	49.50
30	W. B. Nassau .....	do .....	156.00
30	E. T. Peters <i>et al.</i> .....	Salaries for June .....	3,308.35
	Total statistics .....		18,954.20
	Total, maps and charts .....		95.00
	Total, investigating foreign demands, etc. .....		1,842.17
	Total fourth quarter .....		20,891.37
	<i>Supplemental.</i>		
July 5	Milo E. Marsh .....	Salary, May 16 to June 30 .....	101.06
19	John C. Parker .....	Mimeograph paper and ink .....	2.70
19	do .....	Tabulating paper .....	30.00
19	do .....	Manila envelopes .....	99.18
20	Wm. Ballantyne's Sons .....	White envelopes .....	330.22
	The Chesapeake and Potomac Telephone Co. .....	Telephone rent, Apr. 1 to June 30 .....	15.00
27	John C. Parker .....	Manila envelopes .....	445.00
31	Wm. Ballantyne's Sons .....	Envelopes .....	57.67
Aug. 4	do .....	Manila envelopes .....	213.40
5	W. W. Cooke .....	Services as statistical agent, Apr. 1 to June 30 .....	150.00
Sept. 22	I. E. Beerbohm .....	Subscription Evening Corn Trade List, May 5, 1893, to May 5, 1894 .....	29.20
	Investigating foreign demands, etc. .....		1,410.19
	Public Printer .....		238.00
	Total .....		3,121.62

## RECAPITULATION,

First quarter .....	\$23,356.81
Second quarter .....	22,757.42
Third quarter .....	26,299.12
Fourth quarter .....	20,891.37
Supplemental .....	3,121.62
Total .....	95,426.34

Expenditures Department of Agriculture for fiscal year ending June 30, 1893—Cont'd.

## BOTANICAL INVESTIGATIONS AND EXPERIMENTS.

Date.	Name.	Nature of payment.	Total.
1892.			
July 9	E. Morrison Paper Co	Manila paper	\$15.00
19	Grace E. Cooley	Alaskan plants	15.00
21	E. Morrison Paper Co	Paper	5.75
31	F. V. Coville <i>et al</i>	Salaries for July	1,101.80
Aug. 2	A. A. Heller	Salary for July	101.10
2	D. T. MacDougal	do	101.10
2	J. H. Sandberg	do	126.40
3	Library Bureau	Catalogue cards	2.25
4	Frederick Funston	Salary for July	126.40
4	J. H. Sandberg	Expenses for July	164.85
6	P. A. Rydberg	Salary for July	75.00
9	D. M. Coffman	do	126.40
9	J. W. Tomney	do	150.00
10	Z. D. Gilman	Alcohol, etc	13.40
20	United States Express Co	Transportation in July	1.70
26	A. Baldwin	Bacon, etc	42.47
26	McConnell Maguire Co	Sardines, etc	36.75
26	John M. Williams	Hauling	.25
31	F. V. Coville <i>et al</i>	Salaries for August	1,101.80
31	A. A. Heller	Salary for August	101.10
31	Frederick Funston	do	126.40
Sept. 3	John M. Coulter	do	100.00
3	D. T. MacDougal	do	101.10
3	D. M. Coffman	do	126.40
5	E. Morrison Paper Co	Felt dryers, etc	5.50
19	A. A. Heller	Traveling expenses August	26.75
19	do	Salary Sept. 1 to 15	48.91
19	J. H. Sandberg	Salary Aug. 1 to Sept. 15	187.54
22	Frederick Funston	Expenses in July	61.00
30	The Cleveland, Cincinnati, Chicago and St. Louis Rwy. Co.	Transportation	6.00
30	Plant Seed Co	Clover and grass seed	22.40
30	O. D. Dahl	Expenses in the field, July	19.97
30	do	Expenses in the field, August	21.75
30	F. V. Coville <i>et al</i>	Salaries for September	1,066.40
	Total first quarter		5,328.64
Oct. 1	V. H. Igo	Transporting freight, August	1.35
1	D. T. MacDougal	Salary, Sept. 1 to 15	48.91
3	Adams Express Co	Transportation in August	23.90
4	John M. Coulter	Salary for September	100.00
5	O. W. Campbell	Labor, 2 days in August	3.00
5	C. F. Copeland	Labor, 2 days in July	3.00
5	Fletcher White	Labor, 5 days in July	7.50
5	Paul Holmes	Labor, 6 days in August	9.00
5	F. M. Day	do	9.00
5	J. W. Warren	do	9.00
5	Henry Day	do	9.00
5	D. P. McDonald	Grain tester	13.50
5	John J. Riethmann	Bottles	15.00
5	E. S. Weeks	Labor, 11 days, August	16.50
5	J. M. Day	Labor, 6 days, August	18.00
5	W. L. Day	do	18.00
5	Bert Gentry	Labor, 14 days, August	21.00
5	Wm. H. Bell	Labor, 15½ days, July	23.25
5	M. E. Scroggins	Labor, July 23 to Aug. 20	24.75
5	L. C. Martin	Labor, 10½ days, August	31.50
5	S. W. Day	Labor, July 19 to Aug. 20	34.50
5	John Gauschon	Labor, Aug. 20 to Sept. 5	40.00
5	W. B. Jackson	Labor, July 20 to Sept. 12	53.25
5	L. P. Coonrod	Lumber	59.07
5	Kirk White	Labor, July 1 to Sept. 12	83.25
5	James Falkner	Labor, 5½ days	86.25
5	D. M. Bauman	Threshing, August	96.23
5	W. E. Kirby	Labor, 77 days	115.50
5	C. C. Jones	Labor, July 1 to Sept. 30	135.00
5	H. C. Brooks	do	270.00
5	Northern Pacific R. R. Co	Transportation, August	108.95
6	D. T. MacDougal	Expenses in September	24.75
6	D. M. Coffman	Salary for September	122.20
6	J. A. Sewall	Salary for quarter ending Sept. 30	450.00
8	Edward Palmer	Salary, July 1 to Sept. 15	375.00
10	W. L. McGee <i>et al</i>	Salary in September	100.00
10	The Atchison, Topeka and Santa Fe R. R.	Transportation, August	1.99
12	J. H. Alexander	Clover and millet seed	16.00
12	S. M. Tracy	Salary for September	50.00
13	Pennsylvania R. R. Co	Transportation	14.60

Expenditures Department of Agriculture for fiscal year ending June 30, 1893—Cont'd.

## BOTANICAL INVESTIGATIONS AND EXPERIMENTS—Continued.

Date.	Name.	Nature of payment.	Total.
1892.			
Oct. 13	Pennsylvania Co.	Transportation	\$18.25
13	E. N. Ganse	Hardware, etc.	48.73
13	Frederick Funston	Salary for September	122.20
14	Geo. Vasey	Traveling expenses	34.26
15	P. A. Rydberg	Salary, Aug. 1 to 23	55.65
17	L. H. Dewey	Traveling expenses, October	48.70
17	do	Traveling expenses, September	24.05
17	Geo. Vasey	Expenses of trip to Europe	301.77
27	The Cincinnati, Jackson and Mackinaw Rwy. Co.	Transportation	14.65
31	Chicago and Northwestern Rwy. Co.	do	7.64
Nov. 4	F. V. Coville <i>et al.</i>	Salaries for October	894.60
7	D. M. Coffman	do	126.40
7	John M. Coulter	do	100.00
8	S. M. Tracy	do	50.00
8	Z. D. Gilman	Bisulphide carbon	.10
8	Adams Express Co.	Transportation	11.35
9	The Atchison, Topeka and Santa Fe R. R. Co.	do	9.95
9	Crosscup and West Engraving Co.	Photo-engraving trees	30.00
11	J. C. Metzger & Co.	Freight, etc., London to New York	16.40
11	F. Bunnell	Boxes, etc.	2.75
15	Greenleaf C. Nealey	Services, July 1 to Sept. 14	370.00
15	Frederick Funston	Salary for October	126.40
16	Northern Pacific R. R. Co.	Transportation	72.08
16	John M. Williams	Hauling	.25
17	L. R. Stowell	Salary for October	151.60
18	Library Bureau	Index cards	7.60
23	E. G. Clarke	Salary for September	50.00
23	do	Salary for October	50.00
28	J. H. Sandberg	Supplies in camp, July, August, and September.	284.10
28	Chicago, Milwaukee and St. Paul Rwy. Co.	Transportation	11.50
28	do	do	25.55
28	New Mexico and Arizona R. R. Co.	do	.35
28	Baltimore and Ohio R. R. Co.	do	.84
28	W. L. McGee <i>et al.</i>	Labor, October	100.00
30	Geo. W. Thatcher, Jr.	Land rent, Logan, Utah, Sept. 1, 1892, to Jan. 30, 1893.	150.00
30	Woodward & Lothrop	Sheeting	11.50
30	F. V. Coville <i>et al.</i>	Salaries for November	1,012.60
Dec. 2	The Atchison, Topeka and Santa Fe R. R. Co.	Transportation	3.98
3	Frederick Funston	Salary for November	122.20
6	D. M. Coffman	do	122.20
7	Frederick Funston	Traveling expenses, November	12.75
7	do	Expenses, wages of laborer, September	50.00
7	do	Expenses, labor and provision, August	89.87
7	do	Expenses, October	98.65
8	Woodward & Lothrop	Sheeting	1.88
8	Chicago and Northwestern Rwy. Co.	Transportation	2.08
8	W. L. McGee <i>et al.</i>	Labor, November	100.00
8	Mrs. Mary Stewart	Making bags	3.25
12	S. M. Tracy	Salary for November	50.00
12	Z. D. Gilman	Alcohol	11.40
20	John M. Williams	Hauling	.25
20	Alex Schmid	Boxes	4.50
21	Geo. W. Knox Express	Freight and drayage	10.00
28	E. Morrison Paper Co.	Herbarium paper	5.76
28	Arizona and Southern R. R. Co.	Freight charges	.25
30	Adams Express Co.	Transportation	1.00
31	Z. D. Gilman	Bisulphide carbon	.25
31	F. V. Coville <i>et al.</i>	Salaries for December	1,149.88
	Total second quarter		8,823.67
1893.			
Jan. 4	Woodward and Lothrop	Paper cambric	.48
4	C. C. Jones	Labor, quarter ending Dec. 31	135.00
4	H. C. Brooks	Salary, quarter ending Dec. 31	270.00
6	W. E. Kirby	Labor, Oct. 1 to Nov. 5	40.50
6	D. M. Coffman	Salary for December	126.40
10	J. A. Sewall	Salary, quarter ending Dec. 31	450.00
12	W. L. McGee <i>et al.</i>	Labor for December	100.00

Expenditures Department of Agriculture for fiscal year ending June 30, 1893—Cont'd.

## BOTANICAL INVESTIGATIONS AND EXPERIMENTS—Continued.

Date.	Name.	Nature of payment.	Total.
1893.			
Jan. 12	S. M. Tracy .....	Salary for December .....	\$50.00
16	E. G. Clarke .....	Labor, November and December .....	100.00
19	Atchison, Topeka and Santa Fe R. R. Co.	Transportation .....	1.99
23	William H. Kane .....	do .....	.07
24	Lake Shore and Michigan Southern Rwy. Co.	do .....	6.05
24	Arizona and Southern R. R. Co.	Transporting plants .....	.25
25	John M. Williams .....	Hauling .....	.25
26	N. V. Randolph & Co .....	Herbarium flaps .....	19.50
27	Julius Bien & Co .....	Lithographing and printing grasses .....	1,075.00
31	F. V. Coville <i>et al.</i> .....	Salaries for January .....	1,177.80
Feb. 7	S. M. Tracy .....	Salary for January .....	50.00
7	W. L. McGee <i>et al.</i> .....	Labor for January .....	100.00
8	Z. D. Gilman .....	Alcohol, etc .....	15.06
8	Geo. Vasey .....	Glue .....	.40
9	Baltimore and Ohio R. R. Co. ....	Transportation, plants, September .....	1.26
11	Photo-Engraving Co. ....	Photo-engraving, etc. ....	16.00
11	B. L. Robinson .....	Greek plants .....	22.00
11	Stephenson's Express .....	Freight, etc .....	9.55
11	Geo. W. Knox Express .....	do .....	50.00
13	Atchison, Topeka and Santa Fe R. R. Co.	Transportation, Sewall <i>et al.</i> .....	33.74
15	Adams Express Co. ....	Transportation, box, etc., December .....	2.25
18	John M. Coulter .....	Salary for January .....	100.00
20	Luther D. Reed .....	Plants .....	24.00
20	Photo-Engraving Co. ....	Plates .....	7.00
25	John Macoun .....	Canadian lichens and moss .....	16.00
28	F. V. Coville <i>et al.</i> .....	Salaries for February .....	1,064.40
Mar. 1	Library Bureau .....	Catalogue cards .....	14.40
7	S. M. Tracy .....	Salary for February .....	50.00
7	John M. Coulter .....	do .....	100.00
7	W. L. McGee <i>et al.</i> .....	Labor for February .....	100.00
15	E. Morrison Paper Co. ....	Paper, etc. ....	28.88
15	Fred'k Funston .....	Salary Mar. 1 to 14, inclusive .....	46.67
16	Atchison, Topeka and Santa Fe R. R. Co.	Transportation, Sewall, February .....	3.98
16	Maurice Joyce .....	Engraving plates .....	10.25
17	United States Express Co. ....	Transportation, February .....	7.62
17	Conrad Becker .....	Leather straps .....	2.00
20	Texas and Pacific Rwy. ....	Transportation, plants, October, 1892 .....	.76
24	Henry J. Green .....	Barometer .....	20.20
30	Atchison, Topeka and Santa Fe R. R. Co.	Transportation, Sewall, March .....	3.98
31	New Mexico and Arizona R. R. Co. ....	Transportation, plants, October and November .....	.50
31	Baltimore and Ohio R. R. Co. ....	Transportation, plants, November and December .....	1.10
31	Frederick Funston .....	Salary, Mar. 15 to 31 .....	101.45
31	F. V. Coville <i>et al.</i> .....	Salaries for March .....	955.60
	Total third quarter .....		6,462.84
Apr. 3	H. N. Patterson .....	Check list of plants—2 copies .....	1.50
12	S. M. Tracy .....	Salary for March .....	50.00
12	C. C. Jones .....	Labor, Jan 1. to Mar. 31 .....	135.00
12	H. C. Brooks .....	do .....	270.00
12	J. A. Sewall .....	Salary, Jan. 1 to Mar. 31 .....	450.00
12	C. G. Pringle .....	Mexican collection plants .....	25.00
12	E. G. Clarke .....	Salary, January and February .....	100.00
13	W. L. McGee <i>et al.</i> .....	Labor, March .....	100.00
14	Adams Express Co. ....	Transportation, February .....	1.55
20	Library Bureau .....	Index cards, etc. ....	2.00
20	A. S. Johnson .....	Tin pan .....	.75
20	E. Morrison Paper Co. ....	Herbarium paper .....	2.88
20	do .....	Straw boards, etc. ....	5.50
26	Thomas Moran .....	Specimens of pond weeds .....	4.50
29	Wyckoff, Seaman & Benedict .....	Desk .....	15.00
30	L. H. Dewey <i>et al.</i> .....	Salaries for April .....	794.93
May 1	H. H. Rusby .....	Specimens South American plants .....	47.20
1	Frederick Funston .....	Salary for April .....	185.00
6	The Chesapeake and Ohio Rwy. Co. ....	Transportation, Funston, March .....	28.00
11	S. M. Tracy .....	Traveling expenses, Apr. 14 to 16 .....	29.55
12	Atchison, Topeka and Santa Fe R. R. Co.	Transportation, Sewall, April .....	3.98
12	Northern Pacific R. R. Co. ....	Transportation, Funston, March .....	6.25
12	Z. D. Gilman .....	Alcohol, etc. ....	13.88
13	E. Morrison Paper Co. ....	Paper .....	4.50

Expenditures Department of Agriculture for fiscal year ending June 30, 1893—Cont'd.

## BOTANICAL INVESTIGATIONS AND EXPERIMENTS—Continued.

Date.	Name.	Nature of payment.	Total.
1893.			
May 15	Lucien M. Underwood	Hepatica Americanae. Nos. 141 to 150	\$1.50
15	S. M. Tracy	Salary for April	50.00
17	C. Becker	Straps with buckles	3.00
17	United States Express Co.	Transportation, April	1.00
19	Atchison, Topeka and Santa Fe R. R. Co.	Transportation, grain, January	6.20
19	John C. Parker	Remodeling typewriter	45.00
22	Atlantic and Pacific R. R. Co.	Transportation, grain, January	3.00
25	Woodward & Lothrop	Picture frames	1.05
25	Adams Express Co.	Transportation in April	1.90
27	W. N. Suksdorf	Herbarium specimens	18.52
31	John B. Leiberg	Salary, May 10 to 31	106.45
31	J. H. Sandberg	do	106.45
31	Edward Palmer	Salary, May 1 to 31	100.00
31	Frederick Funston	do	185.00
31	L. H. Dewey et al.	Salaries for May	951.60
June 3	E. Morrison Paper Co.	Covers, paper, etc	7.25
3	W. L. McGee et al.	Labor, April	61.60
6	Atchison, Topeka and Santa Fe R. R. Co.	Transportation, Sewall, December, 1892	3.98
8	S. M. Tracy	Salary for May	50.00
10	Photo-Engraving Co.	Plates	5.40
10	do	Plates plants	16.30
14	Pennsylvania R. R. Co.	Transportation, Edward Palmer, June	68.50
20	United States Express Co.	Express transportation, May	3.45
27	Library Bureau	Carl index case	15.00
27	L. H. Dewey	Traveling expenses, June 19 to 23	23.44
30	E. Morrison Paper Co.	Paper strawboards, etc	17.60
30	do	Herbarium paper	5.50
30	J. H. Sandberg	Salary for June	150.00
30	John B. Leiberg	do	150.00
30	Edward Palmer	do	100.00
30	L. H. Dewey et al.	Salaries	940.70
	Total fourth quarter		5,525.86
	Supplemental.		
July 6	Henry Lee	Grass seed	4.40
6	R. M. Lawrence	Coal	7.00
6	C. C. Jones	Labor, Apr. 1 to June 30	135.00
6	H. C. Brooks	Labor, Apr. 1 to June 30	270.00
6	J. A. Sewall	Salary, Apr. 1 to June 30	450.08
Aug. 24	Woodward & Lothrop	Linen desk cover	1.60
Sept. 14	E. G. Clarke	Salary, March and April, 1893	100.00
	Transportation orders		133.95
	Public Printer		205.33
	Total		1,307.36

## RECAPITULATION.

First quarter	5,328.64
Second quarter	8,823.67
Third quarter	6,462.84
Fourth quarter	5,525.86
Supplemental	1,307.36
Total	27,448.37

*Expenditures Department of Agriculture for fiscal year ending June 30, 1893—Cont'd.*

INVESTIGATING THE HISTORY AND HABITS OF INSECTS.

Date.	Name.	Nature of payment.	Total.
1892.			
July 15	F. W. Mally	Salary, July 1 to 15	\$40.76
16	Nathan Banks	do	36.29
18	Brodhead & Co.	Tarleton	4.80
18	Barber & Ross	Rake	.40
23	Mary E. Murfieldt	Services, July 1 to 15	24.19
25	Photo-Engraving Co.	Plates and electros	6.30
25	Blake & Co.	Naphthaline cones	5.00
25	John Akhurst	Insect pins	28.00
29	Joseph F. Collins	Building brick walls, etc.	65.00
31	E. A. Schwarz <i>et al</i>	Salaries for July	788.05
Aug. 2	John C. Parker	Transfer cases	6.00
3	Library Bureau	Cards	3.84
6	W. G. Copeland & Co.	Awnings, etc., for insectary	74.00
6	Geo. Ryneal, Jr.	Drawing paper	1.44
6	Washington Gas Light Co.	Gas for July	.25
6	Herbert Osborn	Salary for July	50.00
6	Lawrence Bruner	do	50.00
6	Albert Koebele	do	126.40
10	Z. D. Gilman	Chemicals, etc.	6.42
11	J. H. Larrabee	Salary and expenses for July	97.70
11	Photo-Engraving Co.	Plates and electrotypes	16.90
12	Bausch & Lomb Optical Co.	Balsam	1.12
13	D. W. Coquillett	Salary for July	126.40
22	A. B. Cordley	do	101.10
23	L. O. Howard	Expenses of trip to attend meeting of society	50.76
26	J. H. Larrabee	Salary, Aug. 1 to 15	40.76
30	Eimer & Amend	Rubber stoppers	10.83
31	E. A. Schwarz <i>et al</i>	Salaries for August	746.87
Sept. 2	F. M. Webster	Salary for July and Aug. 1 to 15	187.54
3	Lawrence Bruner	Salary for July and August	50.00
7	Herbert Osborn	Salary for August	50.00
9	Z. D. Gilman	Alcohol	5.15
13	D. W. Coquillett	Salary for August	126.40
15	Photo-Engraving Co.	Engraving, etc.	13.00
15	Theo. Pergande	Traveling expenses in August	2.75
16	Adams Express Co.	Transportation	4.80
17	Albert Koebele	Salary for August	126.40
24	C. V. Riley	Traveling expenses	79.20
30	E. A. Schwarz <i>et al</i>	Salaries for September	785.80
	Total first quarter		3,940.62
Oct. 4	Lawrence Bruner	Salary for September	50.00
6	Albert Koebele	do	122.20
10	D. W. Coquillett	do	122.20
10	Chesapeake and Potomac Telephone Co.	Telephone rent, July 1 to Sept. 30	15.00
10	Photo-Engraving Co.	Plates of insects	1.70
10	do	do	3.75
10	do	do	12.00
14	Herbert Osborn	Salary for September	50.00
18	United States Express Co.	Transportation	1.20
20	Photo-Engraving Co.	Engraving plates	10.30
22	Orndorf & Truxton	Wheat	1.10
25	Herman Baumgarten	Stamps	2.50
25	Photo-Engraving Co.	Plates	16.70
31	Elisha T. Jenks	Keys	1.53
31	E. A. Schwarz <i>et al</i>	Salaries for October	812.10
Nov. 2	Frank Benton	Traveling expenses, October	41.75
3	Lawrence Bruner	Salary for October	50.00
3	Albert Koebele	do	126.40
3	Williamsburg Cork Works	Sheets	12.00
7	Washington Gaslight Co.	Gas for October	.25
8	Herbert Osborne	Salary and expenses, October	68.82
8	Adams Express Co.	Transportation	4.25
14	John C. Parker	Indexes	16.50
16	Photo-Engraving Co.	Engraving plates	31.50
17	Theo. Pergande	Labor	3.00
18	H. C. Castle	Klips and keys	5.30
19	Moss Engraving Co.	Engraving plates	6.85
23	Photo-Engraving Co.	do	4.77
25	D. W. Coquillett	Salary and expenses, October	156.30
26	Photo-Engraving Co.	Engraving plates	5.40
26	Woodward & Lothrop	Cotton bats	2.16
30	Barber & Ross	Watering pots, etc.	3.20
30	United States Express Co.	Transportation	.50
30	E. A. Schwarz <i>et al</i>	Salaries for November	785.80

## EXPENDITURES IN DEPARTMENT OF AGRICULTURE.

17

Expenditures Department of Agriculture for fiscal year ending June 30, 1893—Cont'd.

## INVESTIGATING THE HISTORY AND HABITS OF INSECTS—Continued.

Date.	Name.	Nature of payment.	Total.
1892.			
Dec. 2	Albert Koebele	Salary for November	\$122.20
2	Photo-Engraving Co.	Engraving plates	1.60
5	do	do	37.85
5	Herbert Osborn	Salary for November	50.00
5	Washington Gaslight Co.	Gas for November	.25
8	Lawrence Bruner	Salary for November	50.00
8	D. W. Coquillett	do	122.20
8	Blake & Co.	Forceps	4.50
12	Geo. Ryneal, jr	Glass and brushes	9.60
12	Z. D. Gilman	Alcohol and watch glasses	4.65
12	Adams Express Co.	Transportation	2.70
15	Lawrence Bruner	Traveling expenses	8.10
16	Photo-Engraving Co.	Engraving plates	1.43
16	James W. Queen & Co.	Forceps	2.00
17	John Akhurst	Forceps and pins	8.00
17	Eimer & Amend	Rubber stoppers and box	72.59
19	Montgomery & Co.	Punches	7.00
21	Library Bureau	Index cards	7.60
29	Whitall, Tatum & Co.	Shell vials	26.06
30	People's Dispatch Co.	Freight charges	1.35
30	Adams Express Co.	Transportation	6.50
31	Z. D. Gilman	Chloroform, etc	9.50
31	E. A. Schwarz <i>et al.</i>	Salaries for December	812.10
	Total second quarter		3,914.81
1893.			
Jan. 4	Woodward & Lothrop	Muslin, etc	2.15
4	M. Abbott Frazar	Insect pins	3.04
5	Herbert Osborn	Salary for December	50.00
5	Lawrence Bruner	do	50.00
5	Albert Koebele	do	126.40
6	Whitall, Tatum & Co.	Vials	45.96
10	L. H. Hopkins	Saw, etc	1.50
10	Chesapeake and Potomac Telephone Co.	Telephone rent, Oct. 1 to Dec. 31	15.00
10	John C. Parker	Lenses, etc	9.00
10	D. W. Coquillett	Salary for December	126.40
14	Wyckoff, Seaman & Benedict	Remodeling typewriter	35.00
24	Woodward & Lothrop	Tarletan	2.50
24	Brentanos	Fountain pen	3.00
25	Photo-Engraving Co.	Plates of insects	6.75
26	Dennison Manufacturing Co.	Boxes and freight	87.32
28	Brentanos	Fountain pens	5.00
28	United States Express Co.	Transportation in December	4.85
31	E. A. Schwarz <i>et al.</i>	Salaries for January	830.00
Feb. 1	Albert Koebele	Salary for January	129.20
3	Herbert Osborn	do	50.00
4	John A. Power & Co.	Plumbing	24.00
6	Lawrence Bruner	Salary for January	50.00
7	Washington Gaslight Co.	Gas for January	.25
8	Z. D. Gilman	Alcohol and varnish	4.05
8	Geo. Ryneal, jr	Wire	.10
9	D. W. Coquillett	Salary for January	129.20
11	Springmann's Express	Hauling, etc	.75
13	Photo-Engraving Co.	Engraving and electro	3.70
15	Adams Express Co.	Transportation, December	8.15
16	L. H. Schneider's Son	Hardware	.25
20	Hanson Brothers	Electrototype cuts, etc	3.60
20	Wheeler Manufacturing Co.	Compound	5.05
21	F. W. Devoe & C. T. Raynolds Co.	Bristol board	.35
25	L. O. Howard	Trip to Manassas and return, February	2.65
27	C. V. Riley	Traveling expenses, January	54.25
28	E. A. Schwarz <i>et al.</i>	Salaries for February	750.00
Mar. 3	Truslow & Co.	Sheet cork	8.75
3	Lawrence Bruner	Salary for February	50.00
7	Otoje Takahashi	Salary for January	30.00
7	do	Salary for February	30.00
7	Herbert Osborn	do	50.00
7	Albert Koebele	do	116.60
8	The Jackson Jones Co.	Cement	.50
8	Z. D. Gilman	Oil, alcohol, etc.	8.55
9	United States Express Co.	Transportation, January	.65
9	Blake & Co.	Forceps	4.50
10	Washington Gaslight Co.	Gas for February	.25
15	L. H. Schneider's Son	Copper wire	.81
17	United States Express Co.	Transportation, January	.30
18	Burlington Drug Co.	Paris purple	.90

Expenditures Department of Agriculture for fiscal year ending June 30, 1893—Cont'd.

## INVESTIGATING THE HISTORY AND HABITS OF INSECTS—Continued.

Date.	Name.	Nature of payment.	Total.
1893.			
Mar. 21	Adams Express Co.	Transportation, January	\$1.65
23	Wheeler Manufacturing Co.	Box I. X. L. Compound and freight	5.95
23	D. W. Coquillett	Salary for February	116.60
29	Blake & Co.	Forceps	1.50
29	John Akhurst	Insect pins	2.50
29	Geo. W. Knox Express	Freight and drayage, February	4.20
30	Wyckoff, Seaman & Benedict	Repairs to typewriter	6.33
31	E. A. Schwarz <i>et al.</i>	Salaries for March	862.90
	Total third quarter		3,922.86
Apr. 3	Photo-Engraving Co.	Engraving	23.50
3	Joseph F. Collins	Labor and material for brick wall	15.00
8	The Chesapeake and Potomac Telephone Co.	Telephone rent, Jan. 1 to Mar. 31, 1893	15.00
8	L. H. Hopkins	Shears	1.75
10	Brentanos	Fountain pen	3.00
10	P. G. Sauer & Co.	Warming oven	3.50
12	Lawrence Bruner	Salary for March	50.00
12	Albert Koebel	do	129.20
12	D. W. Coquillett	Salary and expenses, March	135.60
12	Photo-Engraving Co.	Photo-engravings, etc	4.03
13	do	do	6.25
13	United States Express Co.	Transportation, March	4.15
14	Herbert Osborn	Salary for March	50.00
14	Adams Express Co.	Transportation, February	8.15
20	Photo-Engraving Co.	Engraving plates	8.28
20	John Akhurst	Insect pins	12.00
21	Otoji Takahashi	Salary for March	30.00
26	John Green	Tolles achromatic lens	12.50
29	E. A. Schwarz	Expenses trip to Coleman's Falls, April	13.45
30	E. A. Schwarz <i>et al.</i>	Salaries for April	755.60
May 1	Queen & Co., Incorporated	Slide boxes and circles	9.65
2	Mary E. Murtfeldt	Salary for April	50.00
2	Lawrence Bruner	do	50.00
2	Albert Koebel	do	123.60
4	Otoji Takahashi	do	30.00
5	Herbert Osborn	do	50.00
11	D. W. Coquillett	do	112.60
12	John A. Power & Co.	Repairs to aquarium	10.00
12	Thos. Somerville & Sons	Brass nuts, etc	1.20
12	Woodward & Lothrop	Muslin and cheese cloth	2.75
12	Z. D. Gilman	Bottles, etc	23.23
13	Adams Express Co.	Transportation in March	14.98
17	Photo-Engraving Co.	Engraving plates	16.65
17	do	do	20.05
17	United States Express Co.	Transportation in April	2.20
18	C. M. Bell	Making negatives	12.00
19	John C. Parker	Mimeograph	29.50
25	A. Eberly's Sons	Tin cans	1.40
25	Adams Express Co.	Transportation in April	6.75
31	E. A. Schwarz <i>et al.</i>	Salaries for May	778.80
June 3	J. Ter Kuile	Ocean freight and charges	8.26
5	Lawrence Bruner	Salary for May	50.00
6	Mary E. Murtfeldt	do	50.00
6	Herbert Osborn	do	50.00
6	Library Bureau	Index cards	3.20
6	Photo-Engraving Co.	Plates, butterfiles	11.00
6	C. V. Riley	Traveling expenses, May 22 to 24	17.10
8	D. W. Coquillett	Salary and expenses for May	133.90
8	Albert Koebel	Salary and expenses for May	204.90
9	Washington Gaslight Co	Gas for May	.25
10	Eimer & Amend	Rubber stoppers	17.19
10	Moss Engraving Co.	Electro insect marks	.69
12	Geo. Ryneal, Jr.	Atomizer, etc	3.50
12	W. C. Newton & Co.	Rollers, etc	1.65
12	Z. D. Gilman	Hellebore, etc	1.65
12	Albert Koebel	Traveling expenses in April	51.00
19	Photo-Engraving Co.	Engraving plates	4.25
21	Edward P. Mertz	Forceps	3.60
21	F. H. Chittenden	Traveling expenses, Apr. 28 to June 19	2.54
22	Photo-Engraving Co.	Photo-engraved plates	9.41
22	do	do	11.90
22	Adams Express Co.	Transportation, May	4.20
27	Blake & Co.	1 pinning forceps	1.50
30	E. A. Schwarz <i>et al.</i>	Salaries for June	755.60
	Total fourth quarter		4,034.61

Expenditures Department of Agriculture for fiscal year ending June 30, 1893—Cont'd.

## INVESTIGATING THE HISTORY AND HABITS OF INSECTS—Continued.

Date.	Name.	Nature of payment.	Total.
<i>Supplemental.</i>			
1893.			
July 3	Richard S. Lull	Salary, June 22 to 30	\$24.73
3	Lawrence Bruner	Salary for June	50.00
3	Herbert Osborn	do	50.00
6	Whitall, Tatum & Co	Shell vials	22.79
6	Mary E. Murtfeldt	Salary for June	50.00
7	Photo-Engraving Co	Engraving	5.90
8	A. S. Packard	Salary for June	75.00
10	C. V. Riley	Expenses, June 16 to 25	79.95
18	Sam'l Henshaw	Salary for June	75.00
18	D. W. Coquillett	do	123.60
19	Jos. G. Barlow	Indexes, etc	50.00
19	John C. Parker	Transfer cases	3.30
19	do	Pins	6.00
20	W. A. Pierce & Co	Stamp rack	1.00
20	J. Baumgarten & Son	Vial blocks	1.25
20	D. Ballauf	Telephone rent, Apr. 1 to June 30	50.00
20	The Chesapeake & Potomac Telephone Co.	Telephone rent, Apr. 1 to June 30	15.00
20	H. L. Crawford	Concreting	130.00
20	M. G. Copeland & Co	Awnings	92.00
21	Herman Baumgarten	Stamps	.75
21	John H. Power & Co	Repairs to aquarium	4.70
21	Sam'l Henshaw	Salary for April and May	150.00
24	Adams Express Co	Transportation in June	2.90
27	The Standard Engraving Co	Plate	.50
27	United States Express Co	Transportation in June	1.20
Aug. 2	Albert Koebele	Salary and expenses for June	217.13
22	Otoji Takashashi	Salary for May and June	100.00
Sept. 1	Albert Koebele	Expenses in June	6.00
	Transportation orders		64.20
	Total.		1,452.90

## RECAPITULATION.

First quarter		\$3,940.62
Second quarter		3,914.81
Third quarter		3,922.86
Fourth quarter		4,034.61
Supplemental		1,452.90
Total		17,265.80

## ORNITHOLOGY AND MAMMALOGY.

Date.	Name.	Nature of payment.	Total.
1892.			
July 18	J. B. Chamberlain	Film for kodak	\$6.00
30	William F. Rigden	Alcohol, crows' stomachs, etc	1.08
31	Edward A. Preble	Salary for July	101.10
31	Walter B. Barrows <i>et al.</i>	Salaries for July	302.70
Aug. 1	H. H. Wickham	Birds' stomachs	4.80
1	E. A. Goldman	Salary for July	75.80
1	B. H. Dutcher	do	101.10
1	J. Alden Loring	do	101.10
1	Geo. A. Coleman	do	101.10
1	E. W. Nelson	do	151.60
1	Russell J. Thompson	do	54.20
4	A. K. Fisher	Expenses in July	76.13
9	Vernon Bailey	Salary for July	150.00
9	H. H. Brimley	Mammals	3.60
10	J. Baumgarten & Son	Numbering machine, etc	22.50
12	F. F. Crevecoeur	Birds' stomachs	13.50
13	F. B. Armstrong	Mammals	55.70
16	People's Dispatch Co.	Freight and drayage	11.75
17	Illinois Central R. R. Co.	Transportation	30.25
18	Atlantic & Pacific R. R. Co.	do	36.35
20	United States Express Co.	Steel tape measures	6.00
23	B. G. True	Transportation in July	20.25
26	M. A. Tappan	Crow stomachs, etc	2.25
31	W. B. Barrows <i>et al.</i>	Primed shells, etc	5.50
		Salaries for August	201.60

*Expenditures Department of Agriculture for fiscal year ending June 30, 1893.—Cont'd.*

ORNITHOLOGY AND MAMMALOGY—Continued.

Date.	Name.	Nature of payment.	Total.
1892.			
Aug. 31	E. W. Nelson.	Salary for August .....	\$151.60
31	Clark P. Streator .....	do .....	117.90
31	Edward A. Preble .....	do .....	101.10
31	B. H. Dutcher .....	do .....	101.10
31	Geo. A. Coleman .....	do .....	101.10
31	E. A. Goldman .....	do .....	75.80
31	F. Stephens .....	Mammals .....	16.30
Sept. 2	Russell J. Thompson .....	Salary for August .....	84.20
5	The Atchison, Topeka and Santa Fe R. R. Co.	Transportation .....	12.05
7	Vernon Bailey .....	Salary for August .....	150.00
9	J. Alden Loring .....	do .....	101.10
13	M. A. Tappan .....	No. 5 shot, etc .....	3.15
15	Puresscott and Arizona Central Rwy. Co.	Transportation .....	4.40
15	Woodward & Lothrop .....	Cotton batting .....	8.50
16	Adams Express Co .....	Transportation in July .....	24.40
19	Geo. A. Coleman .....	Salary, September 1 to 15 .....	48.91
24	W. E. Traill .....	Mammals .....	55.19
26	Fred W. Koch .....	do .....	11.50
26	C. Ward Merriam .....	Expenses, trip to Roan Mountain, Ten- nessee, August .....	97.75
26	do .....	Expenses, trip to Roan Mountain, Ten- nessee, September .....	58.50
30	United States Express Co .....	Transportation in August .....	17.35
30	Z. D. Gilman .....	Arsenic .....	3.00
30	E. A. Goldman .....	Salary for September .....	73.40
30	J. Alden Loring .....	do .....	97.80
30	Clark P. Streator .....	do .....	114.20
30	E. W. Nelson .....	do .....	146.80
30	W. B. Barrows <i>et al</i> .....	Salaries for September .....	196.80
	Total first quarter .....		3,639.86
Oct. 1	J. R. Slonaker .....	Crows' stomachs .....	1.50
1	B. H. Dutcher .....	Salary for September .....	97.80
1	Vernon Bailey .....	do .....	150.00
3	Adams Express Co .....	Transportation in August .....	26.81
3	Geo. W. Knox Express .....	Transportation in July .....	1.77
4	Russell J. Thompson .....	Salary for September .....	81.60
6	Charles H. Marsh .....	Mammals .....	29.40
10	Chesapeake and Potomac Tele- phone Co.	Telephone rent, July 1 to September 30 .....	15.00
10	Walter K. Fisher .....	Mammals .....	69.65
10	Baltimore and Ohio R. R. Co .....	Transportation .....	20.85
10	Frank B. Armstrong .....	Mammals .....	33.20
10	Edward A. Preble .....	Salary for September .....	97.80
15	Bausch & Lomb Optical Co .....	Compressors, etc .....	5.18
18	United States Express Co .....	Transportation .....	48.00
22	F. J. Cullen .....	Photographs .....	27.00
28	Amon R. Shearer .....	Bird stomachs .....	1.60
28	Charles Eshorn, Jr .....	Alcohol and jar .....	.50
28	E. M. Brener .....	Bird stomachs .....	1.75
31	W. B. Barrows <i>et al</i> .....	Salaries for October .....	201.60
Nov. 1	Vernon Bailey .....	Salary for October .....	150.00
1	Russell J. Thompson .....	do .....	84.20
1	Clark P. Streator .....	do .....	117.90
2	J. Alden Loring .....	do .....	101.10
2	E. W. Nelson .....	do .....	151.60
7	The Norris Peters Co .....	Printing map of Death Valley .....	5.00
8	E. A. Goldman .....	Salary for October .....	75.80
8	Z. D. Gilman .....	Forceps, etc .....	8.41
8	Adams Express Co .....	Transportation, September .....	14.90
9	M. Elmer Rambo .....	Alcohol and jars .....	1.10
9	Fred W. Koch .....	Mammals .....	4.55
11	A. E. Van Camp .....	do .....	1.00
11	F. S. Place .....	Alcohol .....	.30
16	Ned Hollister .....	Alcohol and jar .....	.55
16	J. P. Easton .....	Mammal .....	1.00
16	Charles H. Marsh .....	Mammals .....	14.50
26	J. W. Boteler & Son .....	Jar .....	.60
26	Walter K. Fisher .....	Mammals .....	3.85
28	W. G. W. Leizear .....	Bird stomachs .....	18.55
29	D. M. Swarr .....	Alcohol and jar .....	1.28
30	E. A. Goldman .....	Salary for November .....	73.40
30	J. Alden Loring .....	do .....	97.80
30	United States Express Co .....	Transportation in October .....	16.35
30	Russell J. Thompson .....	Salary for November .....	81.60
30	E. W. Nelson .....	do .....	146.80

Expenditures Department of Agriculture for fiscal year ending June 30, 1893—Cont'd.

## ORNITHOLOGY AND MAMMALOGY—Continued.

Date.	Name.	Nature of payment.	Total.
1892.			
Nov. 30	Vernon Bailey	Salary for November.	\$150.00
30	W. B. Barrows <i>et al.</i>	Salaries for November.	196.80
Dec. 2	Chas. W. Richmond	Mammals.	37.10
3	Clark P. Streater	Salary for November.	114.20
6	John Robertson	Bird stomachs, etc.	2.90
8	G. W. Knox Express	Freight and drayage, September.	4.37
12	Adams Express Co.	Transportation, October.	18.85
13	Arthur W. Lord	Bird stomachs	2.40
15	United States Express Co.	Transportation, November.	9.55
17	Chas. H. Marsh	Mammals.	4.00
17	F. J. Cullen	Photographs	14.00
19	William H. Fitch	Alcohol	.25
19	E. & H. T. Anthony & Co	Plate holders	5.00
20	W. W. Worthington	Mammals.	1.00
20	The Northern Distillery	Alcohol	21.38
21	Will C. Colt	Alcohol and jars	3.80
28	Wyckoff, Seamans & Benedict	Repairs to typewriters	4.58
30	Adams Express Co.	Transportation, November.	21.30
31	E. A. Goldman	Salary for December.	75.80
31	E. W. Nelson	do	151.60
31	J. Alden Loring	do	101.10
31	Vernon Bailey	do	150.00
31	Walter B. Barrows <i>et al.</i>	Salaries for December.	201.60
	Total second quarter.		3,374.73
1893.			
Jan. 7	John T. Oglesby	Mammal	2.50
10	Chesapeake and Potomac Telephone Co.	Telephone rent, Oct. 1 to Dec. 31	15.00
10	C. Hart Merriam	Traveling expenses	12.65
16	Henry C. Bailey	Mammal	10.00
16	Julius Bien & Co	Plates of birds	2,088.00
17	R. M. Moore	Mammals	20.00
21	A. Hoen & Co	5,000 copies plates of screech owl	95.00
24	Chas. H. Gilbert	Drawing specimens for Report on Death Valley.	35.00
24	Geo. W. Knox Express	Freight and drayage	3.07
27	Henry E. Williams	Mammals	8.25
28	Albert E. McConnell	Drawings	54.00
28	United States Express Co.	Transportation in December	10.15
31	E. A. Goldman	Salary for January.	77.50
31	E. W. Nelson	do	155.00
31	J. Alden Loring	do	103.30
31	W. B. Barrows <i>et al.</i>	Salaries for January	205.00
Feb. 2	Vernon Bailey	Salary for January	150.00
4	R. M. Moore	Mammals	4.00
8	Z. D. Gilman	Vials and corks	18.84
8	Pedro Falavera	Mammals	77.70
11	Springmann's Express	Hauling	2.00
13	Chas. W. Richmond	Mammals	43.10
15	Elmer R. Edson	do	17.65
15	M. A. Tappan	Shells and powder	10.25
15	Adams Express Co.	Transportation, December	6.35
18	John Robertson	Crows' stomachs	3.60
28	E. W. Nelson	Salary for February	140.00
28	E. A. Goldman	do	70.00
28	Walter B. Barrows <i>et al.</i>	Salaries for February	190.00
Mar. 1	The Norris Peters Co.	Map	71.00
1	J. Alden Loring	Salary for February	93.40
1	Vernon Bailey	do	150.00
3	H. E. Williams	Mammals	2.00
3	F. Stephens	do	40.00
3	Ernest E. Thompson	Colored drawings of mammals	200.00
7	Wyckoff, Seamans & Benedict	Repairs to typewriter	5.89
8	Z. D. Gilman	Alcoholometer, etc.	2.35
9	United States Express Co.	Transportation, January	21.85
17	do	Transportation, February	10.45
18	J. Baumgarten & Son	Stamps	2.00
21	Adams Express Co.	Transportation, January	5.45
24	Amon R. Shearer	Birds' stomachs	4.25
24	M. A. Tappan	Shot	1.75
31	C. C. Chambers	Steel traps	18.63
31	Walter B. Barrows <i>et al.</i>	Salaries for March	278.33
	Total third quarter.		4,535.26
Apr. 6	J. Alden Loring	Salary for March	103.30
8	The Chesapeake and Potomac Telephone Co.	Telephone rent Jan. 1 to March, 1893.	15.00

Expenditures Department of Agriculture for fiscal year ending June 30, 1893—Cont'd.

## ORNITHOLOGY AND MAMMALOGY—Continued.

Date.	Name.	Nature of payment.	Total.
1893.			
Apr. 12	W. E. Trail	Mammals	\$47.17
12	E. A. Goldman	Salary for March	77.50
12	E. W. Nelson	do	155.00
13	John S. Cairns	Mammals	3.00
13	F. C. Parks	do	7.00
13	Z. D. Gilman	Dissecting scissors	2.55
13	United States Express Co.	Transportation, March	8.55
14	Adams Express Co.	do	19.45
17	Wm. Bartholomac	Corks	3.00
24	John Akhurst	Insect pins	3.00
26	Geo. B. Badger	Mammals	11.25
29	Henry E. Williams	do	13.50
30	W. B. Barrows <i>et al.</i>	Salaries for April	297.20
May 1	R. M. Moore	Mammals	76.00
5	J. Alden Loring	Salary for April	98.90
6	Woodward & Lothrop	Cotton batting	4.50
12	Z. D. Gilman	Arsenic	1.20
13	Adams Express Co.	Transportation in March	6.15
13	Geo. W. Knox Express	Freight charges	.32
22	E. A. Goldman	Salary for April	74.20
22	E. W. Nelson	do	148.30
25	Walter K. Fisher	Mammals	2.00
25	F. P. May & Co.	Traps	81.00
25	Adams Express Co.	Transportation in April	16.50
26	J. H. Lowry	Mammals	49.75
31	E. A. Goldman	Salary for May	76.60
31	E. W. Nelson	do	153.40
31	Chas. H. Marsh	Specimens, mammals	2.00
31	Vernon Bailey	Salary, May 16 to 21	77.41
31	W. B. Barrows <i>et al.</i>	Salaries for May	349.45
June 3	J. Ford Sempers	Alcohol	.50
3	W. G. W. Leizear	Crow stomachs, etc	4.00
3	J. Alden Loring	Salary for May	102.20
10	Willard E. Treat	Alcohol	.50
20	United States Express Co.	Express transportation, May	1.25
21	H. E. Williams	Mammals	8.50
21	A. G. Wetherby	do	8.00
22	Photo-Engraving Co.	Engraving plates	4.40
21	Adams Express Co.	Transportation, May	46.15
23	Ernest Betz	Labor and material; tin sparrow trap	4.30
28	Charles D. Woodin	Mammals	8.75
28	W. G. W. Leizear	Crow stomachs	25.20
30	E. A. Goldman	Salary for June	74.20
30	J. Alden Loring	do	98.90
30	E. W. Nelson	do	148.30
30	Vernon Bailey	do	150.00
30	Walter B. Barrows	Salaries for June	366.40
	Total fourth quarter		3,035.70
	<i>Supplemental.</i>		
July 5	A. K. Fisher	Expenses for June	33.68
20	The Chesapeake and Potomac Telephone Co.	Telephone rent, April 1 to June 30	15.00
20	Z. D. Gilman	Alum and arsenic	3.00
20	do	Tubes and corks	79.89
24	Adams Express Co.	Transportation in June	4.75
25	F. F. Crevecoeur	Birds' stomachs	9.45
27	United States Express Co.	Transportation in June	6.75
27	do	do	1.30
Sept. 2	Trautman, Bailey, Blampey	Illustration for Bulletin No. 4	150.00
	Transportation orders		58.40
	Total		362.22

## RECAPITULATION.

First quarter	\$3,639.83
Second quarter	3,374.76
Third quarter	4,535.26
Fourth quarter	3,035.70
Supplemental	362.22

Total 14,947.77

## EXPENDITURES IN DEPARTMENT OF AGRICULTURE.

23

*Expenditures Department of Agriculture for fiscal year ending June 30, 1893—Cont'd.*

## POMOLOGICAL INFORMATION.

Date.	Name.	Nature of payment.	Total.
1892.			
July 31	W. N. Irwin <i>et al.</i>	Salaries for July.	\$131.40
Aug. 3	T. T. Lyon	Salary for July.	75.80
9	A. J. Philips	do.	101.10
16	E. J. Pullman & Son	Seed plates.	5.75
31	W. N. Irwin <i>et al.</i>	Salaries for August.	131.40
Sept. 5	Wyckoff, Seamans & Benedict	Remodeling typewriter.	35.00
7	T. T. Lyon	Salary for August.	75.80
7	A. J. Philips	do.	101.10
15	Pennsylvania R. R. Co.	Transportation.	29.50
19	W. D. Taylor	Traveling expenses.	1.30
26	H. E. Van Deman	do.	106.70
30	W. N. Irwin <i>et al.</i>	Salaries for September.	127.20
	Total first quarter.		922.05
Oct. 3	Adams Express Co.	Transportation in August.	1.25
6	T. T. Lyon	Salary for September.	73.40
10	A. J. Philips	do.	97.80
26	W. A. Taylor	Expenses, Sept. 27 to Oct. 10.	17.00
31	W. N. Irwin <i>et al.</i>	Salaries for October.	131.40
Nov. 2	A. J. Philips	Salary for October.	101.10
8	Adams Express Co.	Transportation, September.	6.15
10	T. T. Lyon	Salary for October.	75.80
30	United States Express Co.	Transportation in October.	.35
30	W. N. Irwin <i>et al.</i>	Salaries for November.	127.20
Dec. 3	A. J. Philips	Salary for November.	97.80
5	T. J. May	Plants of Oregon hazel.	5.00
5	T. T. Lyon	Salary for November.	73.40
5	John S. Harris	Salary and expenses, Aug. 1 to Oct. 31.	266.63
7	P. J. Dean	Kola nuts and freight.	7.00
15	E. J. Pullman & Son	Seed dry plates.	1.20
20	Alex Schmid	Boxes.	8.10
31	T. V. Munson	Photo prints of grapes.	10.00
31	A. J. Philips	Salary for December.	101.10
31	W. N. Irwin <i>et al.</i>	Salaries for December.	131.40
	Total second quarter.		1,333.08
1893.			
Jan. 5	T. T. Lyon	Salary for December.	75.80
9	Easton & Rupp	Index cards.	9.80
11	Chicago, Rock Island and Pacific R. R. Co.	Transportation.	42.50
16	Photo-Engraving Co.	Photo-engraving and electros.	4.35
24	H. E. Van Deman	Expenses, January.	12.18
31	W. N. Irwin <i>et al.</i>	Salaries for January.	134.30
Feb. 3	Easton & Rupp	Library cards.	9.00
6	T. T. Lyon	Salary for January.	77.50
8	Wm. A. Taylor	Expenses Jan. 15 to 26.	25.65
11	E. J. Pullman	Eastman film.	3.00
20	New York and New England R. R. Co.	Transportation, Taylor, January.	2.75
23	Maine Central R. R. Co.	do.	9.35
27	H. E. Van Deman	Traveling expenses to Manassas, February.	3.05
28	W. N. Irwin <i>et al.</i>	Salaries for February.	180.60
Mar. 2	Greens Nursery Co.	Apple seedlings.	6.00
3	T. T. Lyon	Salary for February.	70.00
9	Easton & Rupp	Repairs to stamp, etc.	19.00
9	United States Express Co.	Transportation, January.	1.85
15	Albinson & Chase	Tin boxes.	12.98
16	Library Bureau	Stationery, etc.	56.50
17	United States Express Co.	Transportation, February.	1.10
20	Library Bureau	Bristol guides.	5.00
20	Baltimore and Ohio R. R. Co.	Transportation, Taylor, January, 1893.	16.25
21	Adams Express Co.	do.	2.15
23	Easton & Rupp	Blank cards.	1.10
27	E. Morrison Paper Co.	Cards.	9.00
31	W. N. Irwin <i>et al.</i>	Salaries for March.	224.80
	Total third quarter.		1,014.77
Apr. 3	Library Bureau	Bristol guides.	10.00
12	T. T. Lyon	Salary for March.	77.50
13	United States Express Co.	Transportation, March.	1.75
24	Geo. W. Knox Express	do.	.86
30	W. N. Irwin <i>et al.</i>	Salaries for April.	217.78
May 1	New York, New Haven and Hartford R. R. Co.	Transportation, Taylor, January.	9.10
4	T. T. Lyon	Salary for April.	74.20

*Expenditures Department of Agriculture for fiscal year ending June 30, 1893—Cont'd.*

## POMOLOGICAL INFORMATION—Continued.

Date.	Name.	Nature of payment.	Total.
1893.			
May 12	Russell & Fudge	Photos of cocoanut trees	\$3.00
25	Adams Express Co.	Transportation in April	4.50
31	W. P. Corsa <i>et al.</i>	Salaries for May	315.80
June 6	T. T. Lyon	Salary for May	76.60
6	G. B. Brackett	do	170.40
27	H. E. Van Deman	Traveling expenses, June 5 to 14	16.50
30	W. P. Corsa <i>et al.</i>	Salaries for June	307.10
	Total fourth quarter		1,285.09
	<i>Supplemental.</i>		
July 1	Annie C. Bell, executrix C. M. Bell	Photographic supplies	21.60
6	Alex. Schmid	Mailing boxes	60.00
7	T. T. Lyon	Salary for June	74.20
24	Pennsylvania R. R. Co.	Transportation, Van Deman, in June	17.00
	Transportation orders		18.15
	Total		190.95

## RECAPITULATION.

First quarter	\$922.05
Second quarter	1,333.08
Third quarter	1,014.77
Fourth quarter	1,285.09
Supplemental	190.95
Total	4,745.94

## MICROSCOPICAL INVESTIGATIONS.

Date.	Name.	Nature of payment.	Total.
1892.			
Sept. 5	Wyckoff, Seamans & Benedict	Wire, etc., for typewriter	\$0.58
16	Adams Express Co.	Transportation in July	1.70
30	United States Express Co.	Transportation in August	1.50
	Total first quarter		3.78
Oct. 8	Thomas Taylor	Traveling expenses to New Orleans	57.30
20	Richmond and Danville R. R.	Transportation	27.50
Nov. 8	Adams Express Co.	do	65
26	The Orcutt Co.	Plates of edible mushrooms	150.00
26	C. M. Bell	Negatives of mushrooms	10.00
Dec. 13	N. V. Randolph & Co.	Binders	2.50
15	E. J. Pullman	Plate holders	7.29
21	Geo. W. Knox Express	Freight and drayage	1.22
22	Bausch & Lomb Optical Co.	Gauge and glue	3.47
28	Wyckoff, Seamans & Benedict	Repairs to typewriter	40.00
28	Louisville and Nashville R. R. Co.	Transportation	27.50
	Total second quarter		327.43
1893.			
Mar. 9	United States Express Co.	Transportation, January	.25
17	do	Transportation, February	1.15
25	N. V. Randolph & Co.	Binders	6.50
29	Williams, Brown & Earle	Covers, etc.	2.46
	Total third quarter		10.36
Apr. 10	Geo. Ryneal, Jr.	Paints	1.40
13	United States Express Co.	Transportation, March	.70
18	Queen & Co., incorporated	Spectroscope, etc.	125.14
22	do	Repairing binoculars, etc.	201.75
May 12	Geo. Ryneal, Jr.	Paints and brushes	3.73
12	Z. D. Gilman	Alcohol, etc.	4.25
13	Adams Express Co.	Transportation in March	1.85
13	Geo. W. Knox Express	Freight charges, April	.90
16	Photo-Engraving Co.	Engraving plates	2.75
25	Adams Express Co.	Transportation in April	1.60
June 3	Trautmann, Bailey & Blampey	Illustrations of Report Microscopy, 1892	425.00

Expenditures Department of Agriculture for fiscal year ending June 30, 1893—Cont'd.

## MICROSCOPICAL INVESTIGATIONS—Continued.

Date.	Name.	Nature of payment.	Total.
1893.			
June 12	Geo. Ryneal, jr	1 light glass	\$0.88
19	Queen & Co., incorporated	1 box Egyptian colors	6.00
24	Keuffel & Esser Co.	Paragon scale	1.04
24	do	Drawing table	45.00
27	Photo-Engraving Co.	Engraved plate	12.80
	Total fourth quarter		834.89
	<i>Supplemental.</i>		
July 1	Annie C. Bell, executrix C. M. Bell.	Making negatives	30.00
20	John C. Parker	Cap board	.52
20	Z. D. Gilman	Bottles	21.00
21	Sackett & Wilhelms Lithographic Co.	Lithographic illustrations for 1891 report	375.00
Oct. 23	Stecher Lithographic Co.	Plates	380.00
	Total		806.52

## RECÁPITULATION.

First quarter		\$3.78
Second quarter		327.43
Third quarter		10.36
Fourth quarter		834.89
Supplemental		806.52
Total		1,982.98

## VEGETABLE PATHOLOGY.

Date.	Name.	Nature of payment.	Total.
1892.			
July 9	Cordley & Hayes	Pumps	\$10.00
18	Peter Henderson & Co.	Celery and protecting cloth	9.25
19	Eimer & Amend	Palladium chloride	1.80
21	W. S. Powell & Co.	Sulphur	4.59
21	W. M. Whyte & Bro.	Tags	7.75
21	Albinson & Chase	Pipe, pump, clock, etc.	40.36
21	Wm. E. Clark & Co.	Guano, etc	16.77
25	Robert Leitch & Sons	Gauge, repairs to pump, etc.	28.28
30	M. B. Waite	Traveling expenses	17.50
30	Henry Heil	Hygrometer	6.00
31	E. F. Smith <i>et al</i>	Salaries for July	720.00
Aug. 3	D. G. Fairchild	Salary for July	117.90
8	J. B. Ellis	do	25.00
9	Joseph F. James	Traveling expenses	3.17
11	W. T. Swingle	Salary for July	117.90
13	The Goulds Manufacturing Co.	Spraying pumps	32.40
16	Newton B. Pierce	Salary for July	150.00
17	Z. D. Gilman	Chemicals	24.57
17	E. Morrison Paper Co.	Copying books	5.20
18	B. T. Galloway	Labor and expenses, July	18.89
18	P. H. Dorsett	Expenses, July	12.36
23	Wm. E. Clark & Co.	Machine	9.00
31	E. F. Smith <i>et al</i>	Salaries for August	822.10
31	W. T. Swingle	Traveling expenses	26.84
Sept. 3	P. H. Dorsett	Expenses for August	11.69
6	D. G. Fairchild	Salary for August	117.90
12	Photo-Engraving Co.	Making plates	12.00
15	The Nichols Chemical Co.	Blue vitriol	1.50
15	J. B. Chamberlain	Plates	6.00
16	Jacksonville, Tampa and Key West Rwy Co.	Transportation	26.40
16	Adams Express Co.	do	3.35
17	H. A. Hyatt	Plates	3.50
19	Church & Stephenson	Lumber	8.14
19	Geo. W. Knox Express	Freight charges	.42
19	J. B. Ellis	Salary for August	25.00
28	E. G. Brick	Experiments on sweet potatoes	50.00
28	Eastman Kodak Co.	Developing photographs	9.72
30	Michigan Central R. R. Co.	Transportation	6.80

Expenditures Department of Agriculture for fiscal year ending June 30, 1893—Cont'd.

## VEGETABLE PATHOLOGY—Continued.

Date.	Name.	Nature of payment.	Total.
1892.			
Sept. 30	D. G. Fairchild	Salary for September	\$114.20
30	E. F. Smith <i>et al</i>	Salaries for September	795.80
		Total first quarter	3,430.05
Oct.			
1	John C. Parker	Library case and blocks	16.60
1	Erwin F. Smith	Expenses in July and August	62.16
1	do	Expenses, Aug. 24 to Sept. 26	80.45
3	Adams Express Co.	Transportation	5.05
3	W. T. Swingle	Salary, Aug. 1 to Sept. 30	232.10
5	J. B. Ellis	Salary for September	7.00
5	do	Plates—grapes	25.00
5	Photo-Engraving Co.	Salary, Sept. 15 to 30	10.00
7	H. J. Webber	Expenses, Aug. 23 to Sept. 3	28.55
7	B. T. Galloway	Chemicals, etc	52.17
10	Z. D. Gillman	Transportation	49.17
10	Baltimore and Ohio R. R. Co.	Salary, July, August, and September	21.00
13	E. Bartholomew	Expenses, Aug. 30 to Sept. 19	60.00
13	W. T. Swingle	Transportation	41.75
18	United States Express Co.	Chemicals	3.10
18	Eimer & Amend	Two copies Economic Fungi	2.40
19	A. B. Seymour	Salary, Oct. 1-15	12.20
20	H. J. Webber	Expenses in October	48.91
24	do	Expenses in August and September	47.00
26	B. T. Galloway	Engraving plates	20.78
27	Maurice Joyce	Report on experiments on wheat rust	86.00
28	J. F. Swingl <sup>e</sup>	Sulphate of copper, etc	50.00
31	W. S. Powell & Co.	Salaries for October	14.33
31	E. F. Smith <i>et al</i>	Salary, Oct. 16 to 31	821.10
Nov. 1	H. J. Webber	Cupric acetate and dishes	52.17
1	Eimer & Amend	Salary for October	2.80
2	W. T. Swingle	do	117.90
3	J. B. Ellis	Transportation	25.00
8	Adams Express Co.	Expenses in October	3.15
9	H. J. Webber	do	19.10
10	W. T. Swingle	Map of Delaware	15.60
10	J. B. Smith	Expenses in September and October	3.50
10	P. H. Dorsett	do	6.72
10	Erwin F. Smith	Expenses, Oct. 27 to Nov. 3	46.18
10	do	Services, Sept. 27 to Oct. 6	17.88
11	N. H. Darton	Paraffine bath	22.50
14	Seibel-Suessdorf Copper and Iron Manufacturing Co.		18.35
14	Newton B. Pierce	Expenses in July	18.60
14	do	Expenses in August	24.85
14	do	Expenses in September	15.65
14	do	Expenses in October	4.90
14	do	Salary for August	150.00
14	do	Salary for September	150.00
14	do	Salary for October	150.00
15	D. G. Fairchild	Expenses in August and September	78.67
16	G. D. Lind	Glass vials	10.50
17	F. P. May & Co.	Saws, planes, etc	14.70
23	B. T. Galloway	Traveling expenses	25.95
26	S. C. Cissel	Gas machines, etc	164.60
30	H. J. Webber	Salary for November	97.80
30	W. T. Swingle	do	114.20
30	United States Express Co.	Transportation	11.57
30	E. F. Smith <i>et al</i>	Salaries for November	983.40
Dec. 2	E. Bartholomew	Salary and extra labor	30.00
5	Eastman Kodak Co.	Developing and printing photographs	2.80
5	J. B. Ellis	Salary for November	25.00
8	W. T. Swingle	Traveling expenses, November	23.15
9	E. Bartholomew	Salary for November	20.00
9	Lyman Phelps	Orange tree fertilizer	40.00
12	J. B. Chamberlain	Printing frames, etc	20.23
12	Adams Express Co.	Transportation	8.95
13	Newton B. Pierce	Expenses, November	3.30
13	do	Salary, November	150.00
14	B. T. Galloway	Expenses in November	6.95
16	Pennsylvania Railroad Co.	Transportation	26.74
16	do	do	27.30
16	H. J. Webber	Expenses in November	16.35
16	Eimer & Amend	Chemicals, etc	55.74
16	D. G. Fairchild	Expenses in October	34.47
16	M. B. White	do	14.25
21	Geo. W. Knox Express	Drayage	1.00
21	John C. Parker	Book supports and freight	4.20
22	C. E. Springman	Freight charges, etc	50.46

Expenditures Department of Agriculture for fiscal year ending June 30, 1893—Cont'd.

## VEGETABLE PATHOLOGY—Continued.

Date.	Name.	Nature of payment.	Total.
1892.			
Dec. 30	Adams Express Co.	Transportation	\$11.50
31	E. Bartholomew	Salary for December	20.00
31	H. J. Webber	do	101.10
31	W. T. Swingle	do	117.90
31	P. H. Dorsett	Expenses, Dec. 19 to 24	12.40
31	Erwin F. Smith <i>et al</i>	Salaries for December	1,091.60
	Total second quarter		6,078.45
1893.			
Jan. 4	J. B. Ellis	Salary for December	25.00
9	J. F. Russell	Fruit jars	5.60
11	The Northern Distillery	Alcohol	20.47
11	W. T. Swingle	Expenses, Nov. 22 to Dec. 31	5.65
12	Newton B. Pierce	Salary and expenses, December	151.45
14	W. M. Whyte & Bro	Galvanized plates	8.16
17	Ernest Betz	Tin tank	18.00
17	M. B. Waite	Expenses, Jan. 10 to 13	11.28
19	Erwin F. Smith	Expenses, Dec. 26 to Jan. 10	41.15
21	American Florist Co.	The American Florist, volume 1	3.00
21	Eimer & Amend	Bottles, glasses, etc.	118.73
24	Erwin F. Smith	Expenses, January	12.85
24	Geo. W. Knox Express	Freight and drayage on alcohol	3.07
28	United States Express Co.	Transportation	1.60
31	E. F. Smith <i>et al</i>	Salaries for January	744.00
	E. Bartholomew	Salary for January	20.00
3	J. B. Ellis	do	25.00
3	H. J. Webber	do	103.30
3	W. T. Swingle	do	120.60
3	B. F. Stevens	Books, etc.	72.55
4	Eimer & Amend	Balance, weights, etc.	50.70
6	New York, New Haven and Hartford R. R. Co.	Transportation, Dorsett, December	11.55
6	I. B. Chamberlain	Soda, potash, etc.	2.17
8	Z. D. Gilman	Glycerine, etc.	10.94
8	M. B. Waite	Traveling expenses, Washington to Rochester and return	26.71
9	C. L. Shear	Fungi	6.00
9	Tice & Lynch	Duty, etc., on books	10.70
9	B. T. Galloway	Expenses in December	5.33
10	W. T. Swingle	Expenses in January	26.29
11	Coolbaugh & Co.	Soap	11.40
11	Baltimore and Ohio R. R. Co.	Transportation, Dorsett, December	6.50
11	Robert Leitch & Sons	Repairs, etc., on spraying apparatus	12.96
11	Geo. W. Knox Express	Freight on books	1.62
13	Newton B. Pierce	Salary and expenses, January	164.25
13	Eimer & Amend	Thermometers	9.00
14	L. N. Herrick	Gasoline drums	29.36
15	Adams Express Co.	Transportation, December	3.85
17	Richmond and Danville R. R.	Transportation, Smith, October and November	35.00
	Thos. C. Keys	Chairs and curtains	11.50
20	Bausch & Lomb Optical Co.	Forceps, etc.	19.09
24	Wyckoff, Seamans & Benedict	Remodeling typewriter	40.00
27	A. B. Seymour	Specimens fungi	6.00
27	B. T. Galloway	Traveling expenses, February	10.75
27	D. G. Fairchild	Expenses in February	3.25
28	H. J. Webber	Salary for February	93.40
28	W. T. Swingle	Salary for February	108.80
28	Erwin F. Smith <i>et al</i>	Salaries for February	672.00
	H. J. Webber	Expenses, Jan. 5 to Feb. 13	6.07
7	Eimer & Amend	Glass, wool, etc.	8.60
8	N. V. Randolph & Co.	Pamphlet covers	5.00
8	Brocourt	Spraying apparatus	4.18
9	United States Express Co.	Transportation, January	6.30
11	John C. Parker	Index cards and tin box	21.75
11	E. Bartholomew	Salary for February	20.00
11	W. T. Swingle	Expenses in February	9.65
11	Newton B. Pierce	Salary and expenses for February	155.55
15	The Nichols Chemical Co.	Vitriol	13.50
15	The Powers Duplex Regulator Co.	Duplex regulator	24.00
15	Bausch & Lomb Optical Co.	Slips, glasses, etc.	44.99
15	Albert C. Latimer	Palettes	1.35
15	W. S. Powell & Co.	Copper sulphate	1.50
16	J. B. Ellis	Salary for February	25.00
17	United States Express Co.	Transportation, February	1.95
18	J. B. Ellis	"North American Fungi"	7.00
21	Eastman Kodak Co.	Photographic supplies	14.25
21	Adams Express Co.	Transportation, January	6.10

*Expenditures Department of Agriculture for fiscal year ending June 30, 1893—Cont'd*

## VEGETABLE PATHOLOGY—Continued.

Date.	Name.	Nature of payment.	Total.
1893.			
Mar. 24	G. M. Davis & Son	Water tank	\$24.38
25	Erwin F. Smith	Expenses in February	13.43
28	W. D. Kimball	Ladder	6.00
28	L. B. Lee	Zinc tags	9.00
28	P. A. Ross	Brick, lumber, etc.	149.37
28	M. B. Waite	Traveling expenses, February	3.10
31	H. J. Webber	Salary for March	103.30
31	W. T. Swingle	do	120.60
31	Erwin F. Smith <i>et al.</i>	Salaries for March	795.70
		Total third quarter	4,502.20
Apr. 12	E. Bartholomew	Salary for March	20.00
12	J. B. Ellis	do	25.00
12	Photo-Engraving Co.	Photo-engravings, etc.	174.95
12	N. V. Randolph & Co	Pamphlets	12.50
12	Eimer & Amend	Micros ope stand, etc.	148.20
12	do	Objectives, etc.	527.87
13	H. J. Webber	Expenses for March	9.75
13	W. T. Swingle	do	22.67
13	W. M. White & Bro.	Zinc tags, etc.	4.05
13	The Standard Engraving Co.	Engraving plate	4.25
13	United States Express Co.	Transportation, March	2.00
14	B. O. Hall	Gas fixtures, etc., Eustis, Fla.	79.96
14	Newton B. Pierce	Salary and expenses, March	167.90
14	Adams Express Co.	Transportation, February	9.80
14	Paul Hiser, jr., & Bro.	Flower pots	1.75
21	People's Dispatch Co	Transportation hardware, January	.35
24	Geo. W. Knox Express	Freight, March	.96
25	M. B. Waite	Traveling expenses, Apr. 16 to 19	16.00
29	B. F. Stevens	Freight charges in December and January	29.97
29	Wyckoff, Seamans & Benedict	Repairing typewriter	6.50
30	W. T. Swingle	Salary for April	115.40
30	H. J. Webber	do	98.90
30	E. F. Smith <i>et al.</i>	Salaries for April	766.50
May 1	New York, New Haven and Hartford R. R. Co.	Transportation, Dorsett, December	4.30
1	E. Bartholomew	Salary for April	20.00
2	Oswald Weigel	Foreign publications	413.50
4	J. B. Ellis	Salary for April	25.00
5	H. J. Webber	Expenses for April	26.95
5	W. T. Swingle	do	33.79
6	P. H. Dorsett	Expenses, Nov. 1 to Apr. 29	8.27
11	B. T. Galloway	Expenses, February, March, and April	8.37
12	The Scovill Adams Co.	Adjustable tripod	3.50
12	The Nixon Nozzle and Machine Co.	Pump	15.00
12	Bausch & Lomb Optical Co.	Lens, etc	28.13
12	The Blair Camera Co.	do	31.88
13	Nathaniel B. Fugitt	Rent land, Sept. 1 to Apr. 30, 1893	16.00
13	Adams Express Co.	Transportation in March	7.40
13	Royce & Marean	Electrical supplies	2.25
13	Geo. W. Knox Express	Freight charges, March and April	2.91
15	May Varney	Salary, May 1 to 11	30.22
15	W. S. Powell & Co	Carbonate of copper, etc.	9.55
15	The Nichols Chemical Co.	Blue vitriol	13.50
15	P. A. Ross	Erecting water tank, etc.	14.21
17	United States Express Co.	Transportation in April	6.65
25	Selover & Atwood	Pear seedlings	4.00
25	Adams Express Co.	Transportation in April	21.40
29	M. A. Seed Dry Plate Co.	Negative films	12.60
31	H. J. Webber	Salary for May	102.20
31	W. T. Swingle	do	119.20
31	E. F. Smith <i>et al.</i>	Salaries for May	712.00
June 3	P. H. Dorsett	Miscellaneous supplies, soap and traveling expenses	16.28
5	J. B. Ellis	Salary for May	25.00
6	E. Bartholomew	Salary for May	20.00
6	People's Dispatch Co.	Freight charges, March	2.25
10	Eimer & Amend	Glass jars, etc.	49.54
10	Whitall, Tatum & Co.	Glass bottles, etc.	6.28
12	M. B. Waite	Traveling expenses, April	23.80
13	A. B. Seymour	Specimens fungi	18.00
13	H. J. Webber	Traveling expenses, May	6.35
20	Z. D. Gilman	Chemicals	7.05
20	United States Express Co.	Express transportation, May	.80
20	do	do	7.75
21	W. T. Swingle	Traveling expenses, May	15.74
21	K. D. Davis	Cleaning band	35.00

Expenditures Department of Agriculture for fiscal year ending June 30, 1893—Cont'd.

## VEGETABLE PATHOLOGY—Continued.

Date.	Name.	Nature of payment.	Total.
1893.			
June 21	Newton B. Pierce	Salary and expenses, April	\$157.75
22	Adams Express Co.	Transportation, May	1.60
23	Robert Lettch & Sons	Hose, etc.	14.00
29	W. S. Maxwell	Land rent Nov. 1, 1892, to June 30, 1893	50.00
29	B. F. Stevens	"Orange Culture in New England"	.83
30	W. T. Swingle	Salary for June	115.40
30	H. J. Webber	do	98.90
30	Erwin F. Smith <i>et al.</i>	Salaries for June	689.00
	Total fourth quarter		5,299.33
	<i>Supplemental.</i>		
July 1	E. Bartholomew	Salary for June	20.00
3	Eimer & Amend	Glass dishes	11.05
6	J. B. Ellis	Salary for June	25.00
7	H. J. Webber	Expenses for June	3.85
7	P. H. Dorsett	do	10.76
7	Annie C. Bell, executrix of C. M. Bell	Prints and negatives	8.50
7	N. B. Fugitt	Land rent, Garrett Park, April 30 to June 30	4.00
10	M. B. Waite	Expenses in May and June	113.68
19	Newton B. Pierce	Salary for May	150.00
19	do	Salary for June	150.00
21	W. T. Swingle	Expenses for June	5.10
24	Adams Express Co.	Transportation in June	2.30
27	United States Express Co.	do	1.70
Aug. 9	Geo. W. Knox Express	Freight and drayage in June	8.85
Sept. 16	Newton B. Pierce	Expenses in May	67.45
16	do	Expenses in June	16.40
19	Adams Express Co.	Transportation in December, 1892	2.45
Oct. 17	Jacksonville, Tampa and Key West Rwy. Co.	Transportation, Webber, in October, 1892	1.70
	Transportation orders		44.10
	Total		646.89

## RECAPITULATION.

First quarter		\$3,430.05
Second quarter		6,078.45
Third quarter		4,502.20
Fourth quarter		5,299.33
Supplemental		646.89
Total		19,956.92

## LABORATORY.

Date.	Name.	Nature of payment.	Total.
1892.			
July 21	Eimer & Amend	Digestion flasks	\$32.80
21	Z. D. Gilman	Furnace, clamps, etc.	181.63
29	Ernest Betz	Upper steam baths, etc.	91.00
31	Nannie Thompson	9 days' labor, July 1-15	9.00
31	James F. Corridon <i>et al.</i>	Salaries for July	202.00
Aug. 1	Emil Greiner	Flasks	88.00
2	Z. D. Gilman	Chemicals, etc.	682.22
6	Washington Gaslight Co.	Gas for July	20.75
6	L. H. Schneider's Son	Belting	.36
9	Emil Greiner	Gas regulators	5.62
10	Eimer & Amend	Platinum dishes	218.88
10	C. A. Schneider's Sons	Cast-iron plates, etc.	78.90
12	The United States Electric Lighting Co.	Electrical supplies, July	13.20
12	Z. D. Gilman	Tubing, glycerine, etc.	207.46
12	Church & Stephenson	Lumber	27.96
18	W. D. Bigelow	Labor, Aug. 1 to 18, inclusive	24.00
24	Thos. Somerville & Sons	Angle valves, etc.	52.79
31	James F. Corridon <i>et al.</i>	Salaries for August	209.50
Sept. 2	Geo. E. Hutchins	Galvanized fittings, etc.	163.45
5	Washington Gaslight Co.	Gas in August	18.50

Expenditures Department of Agriculture for fiscal year ending June 30, 1893—Cont'd.

## LABORATORY—Continued.

Date.	Name.	Nature of payment.	Total.
1892.			
Sept. 10	The United States Electric Lighting Co.	Electric current, August .....	\$5.40
10	Baker & Adamson .....	Chemicals .....	9.80
12	Eimer & Amend .....	Filter tubes, etc. ....	31.75
13	Ernest Kubel .....	Copper tank, etc. ....	102.20
14	Ernest Betz .....	Roofing, etc. ....	118.43
15	Z. D. Gilman .....	Chemicals .....	75.48
16	Seaton Perry .....	Towels .....	23.04
16	Adams Express Co. ....	Transportation, July .....	2.80
17	Royce & Marean .....	Wiring, plugs, etc. ....	27.50
28	American Ice Co. ....	Coal .....	33.20
30	Jas. F. Corridon <i>et al.</i> ....	Salaries for September .....	124.00
	Total laboratory .....		2,881.62
	Total rent .....		150.00
	Total adulteration of food .....		1,567.18
	Total first quarter .....		4,598.80
Oct. 1	Ernest Betz .....	Brass frames, etc. ....	58.50
3	Adams Express Co. ....	Transportation in August .....	2.00
4	Ernest Kubel .....	Tube for microscope, etc. ....	67.86
7	Washington Gaslight Co. ....	Gas for September .....	15.25
10	Wm. B. Morgan .....	Magnesia plastic .....	5.00
10	Chesapeake and Potomac Telephone Co. ....	Telephone rent, July 1 to Sept. 30 .....	15.00
10	Z. D. Gilman .....	Beakers, tubing, etc. ....	191.08
14	L. H. Hopkins .....	Hardware .....	3.08
26	Eimer & Amend .....	Crucibles .....	8.40
31	Jas. F. Corridon <i>et al.</i> ....	Salaries for October .....	122.50
	Baker & Adamson .....	Sulphuric acid, bottles and case .....	13.42
3	do .....	Ammonia, bottles and case .....	14.20
3	The United States Electric Lighting Co. ....	Electric light, September and October .....	4.92
7	Washington Gaslight Co. ....	Gas for October .....	15.50
8	Z. D. Gilman .....	Flasks, etc. ....	73.55
10	John A. Power .....	Plumbing .....	10.00
11	W. B. Moses & Sons .....	Chairs .....	10.50
11	Ernest Betz .....	Kettle and repairs to wheelbarrow .....	8.25
19	R. J. Shepherd .....	Valve, etc. ....	5.80
26	Pettit & Dripps .....	Repairs to boiler, etc. ....	116.00
30	James F. Corridon <i>et al.</i> ....	Salaries for November .....	86.50
Dec. 5	Washington Gaslight Co. ....	Gas for November .....	9.25
6	The United States Electric Lighting Co. ....	Electric light, November .....	4.18
7	W. Borchardt .....	Soil drill .....	6.40
8	Geo. W. Knox Express .....	Freight and drainage, September .....	.99
8	Eimer & Amend .....	Test tubes, etc. ....	86.95
12	do .....	Tubing .....	5.00
12	Z. D. Gilman .....	Chemicals, etc. ....	33.79
12	Adams Express Co. ....	Transportation, October .....	5.45
20	Robt. Leitch & Sons. ....	Asbestos .....	3.00
21	Geo. W. Knox Express .....	Freight and drayage on cases acid .....	1.45
24	C. E. Springman .....	Cartage .....	1.00
31	Jas. F. Corridon <i>et al.</i> ....	Salaries for December .....	82.00
	Total laboratory .....		1,086.77
	Total rent, laboratory .....		225.00
	Total adulteration of food .....		1,432.81
	Total second quarter .....		2,744.58
1893.			
Jan. 7	The United States Electric Lighting Co. ....	Electric light, December .....	4.13
7	Washington Gaslight Co. ....	Gas .....	22.75
9	Geo. H. Gaddis & Co. ....	Gas radiator .....	12.00
10	Chesapeake and Potomac Telephone Co. ....	Telephone rent, Oct. 1 to Dec. 31 .....	15.00
14	Thos. Somerville & Sons. ....	Leather belting .....	5.85
14	Royce & Marean .....	Repairs to electric light, wires, etc. ....	1.75
14	Z. D. Gilman .....	Chemicals, etc. ....	58.54
24	Geo. W. Knox Express .....	Freight on seeds .....	12.69
28	United States Express Co. ....	Transportation in December .....	.90
31	Jas. F. Corridon .....	Salary for January .....	51.70
Feb. 2	Forsberg & Murray .....	Smoke stack .....	97.00
7	The United States Electric Lighting Co. ....	Electric light, January .....	6.32

Expenditures Department of Agriculture for fiscal year ending June 30, 1893—Cont'd.

## LABORATORY—Continued.

Date.	Name.	Nature of payment.	Total.
1893.			
Feb. 7	Washington Gaslight Co	Gas, January	\$33.50
8	Thos. Somerville & Sons	Repairs to cutter	1.00
11	Z. D. Gilman	Beakers, flasks, etc.	143.66
15	Adams Express Co.	Transportation, December	2.80
17	Robert Leitch & Sons	Asbestos	2.00
18	Wilmarth & Edmonston	Filter and plumbing	37.74
24	W. B. Moses & Sons	Office chairs	22.00
28	James F. Corridon <i>et al.</i>	Salaries for February	66.10
Mar. 2	John A. Power & Co	Plumbing	7.80
2	Ernest Betz	do	8.50
7	The United States Electric Lighting Co.	Electric current, February	6.33
9	United States Express Co.	Transportation, January	1.35
10	Washington Gaslight Co.	Gas for February	33.75
15	Geo. E. Hutchins	Plumbing	22.53
15	Z. D. Gilman	Mufflers, burners, etc.	113.70
17	United States Express Co.	Transportation, February	1.45
18	Ernest Kübel	Repairing apparatus	11.50
20	Woodward & Lothrop	Towels	20.16
20	People's Dispatch Co.	Transportation, box, January	.25
21	Adams Express Co.	do	18.05
29	Z. D. Gilman	Beakers, weights, and balances	243.10
29	Geo. W. Knox Express	Freight and drayage, Sept. 5	.60
29	do	Freight and drayage, February	1.98
31	Royce & Marean	Repairing electric lights	1.25
31	Jas. F. Corridon	Salary for March	51.70
	Total laboratory		1,141.43
	Total rent		225.00
	Total adulteration of food		3,405.48
	Total third quarter		4,771.91
Apr. 8	The United States Electric Lighting Co.	Electric light, March	3.99
8	Ernest Betz	Making drying oven, etc	13.95
8	The Chesapeake and Potomac Telephone Co.	Telephone rent, Jan. 1 to Mar. 31, 1893	15.00
8	Washington Gaslight Co.	Gas for March	26.00
10	Thos. Somerville & Sons	Pump springs	.60
10	Geo. Ryneal, jr.	Skylight glass	1.95
12	Eimer & Amend	Wire, etc.	4.84
12	Emil Greiner	Flasks	6.00
13	Eimer & Amend	Test tubes	21.90
13	Z. D. Gilman	Furnace burner, etc.	24.38
13	Ernest Kübel	Lamp attachments, etc.	15.10
13	United States Express Co.	Transportation, March	3.95
17	Thos. H. White & Co.	Express charges on samples	.30
26	Eimer & Amend	Cylinders, etc	53.60
30	Jos. F. Corridon	Salary for April	49.50
May 2	Frederic Read	Chemicals	50.12
2	John Schultzback	Electrolytic apparatus	32.00
3	Emil Greiner	Electrolytic apparatus and flasks	10.70
6	Eimer & Amend	Flasks	22.40
6	Ernest Betz	Making oven, etc	25.50
6	The United States Electric Lighting Co.	Electric light for April	4.67
6	Washington Gaslight Co.	Gas for April	31.00
13	Adams Express Co.	Transportation in March	8.10
13	do	do	10.10
13	Royce & Marean	Tape	.55
17	John A. Power & Co.	Plumbing, etc., clearing sewer	6.19
18	Z. D. Gilman	Flasks, chemicals, etc.	257.86
22	John M. Williams	Hauling, March 15	.25
25	Moseley & Stoddard Manufacturing Co.	Milk tester, etc.	34.00
25	Ernest Betz	Making water oven	11.10
25	Adams Express Co.	Transportation in April	9.40
31	Jas. F. Corridon <i>et al.</i>	Salaries for May	51.00
June 2	Eimer & Amend	Tubes, etc.	13.40
3	Atchison, Topeka and Santa Fe R. R. Co.	Transportation, freight, March, 1893	.78
6	Eimer & Amend	Flasks	16.10
9	Washington Gaslight Co.	Gas for May	22.25
12	United States Express Co.	Express transportation, February	.25
12	The United States Electric Lighting Co.	Electric current, May	3.30
19	George W. Knox Express	Freight and drayage, May 22	.70

Expenditures Department of Agriculture for fiscal year ending June 30, 1893—Cont'd.

## LABORATORY—Continued.

Date.	Name.	Nature of payment.	Total.
1893. June 20 27	United States Express Co. Joseph E. Bishop	Transportation, May Printing photographs	\$1.40 96
	Total, laboratory		865.14
	Total, rent		225.00
	Total, adulteration of food		3,381.04
	Total fourth quarter		4,471.18
	<i>Supplemental.</i>		
July 5	Washington Gaslight Co.	Gas for June	23.50
	Transportation order		6.48
	Rent of laboratory		75.00
	Adulteration of food		66.99
	Total		171.97

## RECAPITULATION.

First quarter		\$4,598.80
Second quarter		2,744.58
Third quarter		4,771.91
Fourth quarter		4,471.18
Supplemental		171.97
Total		16,758.44

## ADULTERATION OF FOOD (LABORATORY).

Date.	Name.	Nature of payment.	Total.
1893. July 13	E. M. Thompson	Honey	\$6.75
31	T. C. Trescot <i>et al.</i>	Salaries for July	390.90
Aug. 12	V. P. Hinckley	Honey and cans	10.50
16	Peoples' Dispatch Co.	Freight and drayage	2.35
24	Harvey W. Wiley	Purchases for use in experiments	22.27
24	H. W. Wiley	do	68.87
27	do	Expenses, trip to Rochester, N. Y., Aug. 13	39.98
31	T. C. Trescot <i>et al.</i>	Salaries for August	283.26
Sept. 14	Hudson C. Tanner	Stenographic reports	75.00
15	Thos. Somerville & Sons	Clamps, etc.	32.67
15	Z. D. Gilman	Perforated plates, etc	412.90
30	A. J. Wedderburn <i>et al.</i>	Salaries for September	231.73
	Total first quarter		1,567.18
Oct. 10	Z. D. Gilman	Flasks, etc	45.50
31	A. J. Wedderburn <i>et al.</i>	Salaries for October	270.80
Nov. 8	Z. D. Gilman	Chemicals, etc.	12.20
30	A. J. Wedderburn <i>et al.</i>	Salaries for November	379.40
Dec. 12	do	Expenses for November and December	61.84
12	C. D. Gilman	Chemicals, etc.	92.60
23	A. J. Wedderburn <i>et al.</i>	Expenses Nov. 27 to Dec. 1	12.45
31	Walter Maxwell <i>et al.</i>	Salaries for December	558.02
	Total second quarter		1,432.81
1893. Jan. 14	Z. D. Gilman	Ether, tubes, etc	157.58
16	Melvin Bogart	Labor, Dec. 22 to 31	19.57
31	H. W. Wiley	Samples of food	23.30
31	Walter Maxwell <i>et al.</i>	Salaries for January	697.00
Feb. 11	Z. D. Gilman	Flasks, etc	152.05
15	Adams Express Co.	Transportation, December	2.90
28	Walter Maxwell <i>et al.</i>	Salaries for February	738.31
Mar. 8	Z. D. Gilman	Filter paper, etc	149.50
15	do	do	134.65
15	do	Jars, flasks, etc	180.24
31	Walter Maxwell	Salary for March	155.00
31	A. J. Wedderburn	do	200.00
31	T. C. Trescot <i>et al.</i>	Salaries for March	795.38
	Total third quarter		3,405.48

Expenditures Department of Agriculture for fiscal year ending June 30, 1893—Cont'd.

## ADULTERATION OF FOOD (LABORATORY)—Continued.

Date.	Name.	Nature of payment.	Total.
1893.			
Apr. 13	Z. D. Gilman	Tubing, etc	\$104.85
29	Edward N. Cole	Pepsin	2.00
30	Walter Maxwell	Salary for April	148.30
30	Alex. J. Wedderburn	do	200.00
30	T. C. Trescot <i>et al.</i>	Salaries for April	729.35
May 11	K. P. McElroy	Samples for investigation	15.07
15	M. R. Smi h <i>et al.</i>	Labor May 1 to 4	12.00
16	W. W. Kimball & Co	Pepsin	2.40
16	R. H. Thomas	do	2.50
18	The Wills Drug Co., limited	do	.40
18	The Standard Drug Co	do	2.50
18	T. L. Corwin	Samples of butter	5.00
25	Morrison Plummer & Co	Pepsin, etc	2.85
26	Edward N. Cole	Pepsin	2.00
31	H. W. Wiley	Traveling expenses May 5-9	22.20
June 2	T. C. Trescot <i>et al.</i>	Salaries for May	841.94
12	Clarence D. Syphord	Copies Pharmacy Laws	2.50
12	Z. D. Gilman	Chemicals, etc	42.05
12	Eimer & Amend	Bottles	6.00
13	Thomas Somerville & Sons	Brass tubes and fixtures	19.76
20	United States Express Co.	Transportation, May	.50
21	O. E. Hall	Black pepsin	2.10
23	Ernest Betz	Making condenser, etc.	7.57
30	T. C. Trescot <i>et al.</i>	Salaries for June	1,207.20
	Total fourth quarter		3,381.04
	Supplemental.		
July 3	Moseley & Stoddard Manufacturing Co.	Milk tester	16.00
20	Z. D. Gilman	Chemicals, etc	44.60
21	E. H. Stratford	Photos of cassava plant	6.00
Oct. 11	Hannibal and St. Joseph R.R. Co	Transportation of books, March	.39
	Total		66.99

## RECAPITULATION.

First quarter		\$1,567.18
Second quarter		1,432.81
Third quarter		3,405.48
Fourth quarter		3,381.04
Supplemental		66.99
Total		9,853.50

## RENT—LABORATORY BUILDINGS.

Date.	Name.	Nature of payment.	Total.
1892.			
Aug. 3	J. Harrison Johnson	Rent of laboratory, July	\$75.00
Sept. 5	do	Rent of laboratory, August	75.00
	Total first quarter		150.00
Oct. 5	J. Harrison Johnson	Rent of laboratory, September	75.00
Nov. 3	do	Rent of laboratory, October	75.00
Dec. 6	do	Rent of laboratory, November	75.00
	Total second quarter		225.00
1893.			
Jan. 9	J. Harrison Johnson	Rent of laboratory, December	75.00
Feb. 3	do	Rent of laboratory, January	75.00
Mar. 7	do	Rent of laboratory, February	75.00
	Total third quarter		225.00
Apr. 8	J. Harrison Johnson	Rent of laboratory, March	75.00
May 6	do	Rent of laboratory, April	75.00
June 6	do	Rent of laboratory, May	75.00
	Total fourth quarter		225.00

Expenditures Department of Agriculture for fiscal year ending June 30, 1893—Cont'd.

## RENT—LABORATORY BUILDINGS—Continued.

Date.	Name.	Nature of payment.	Total.
	<i>Supplemental.</i>		
1893. July 6	J. Harrison Johnson.....	Rent of laboratory, June .....	\$75.00

## RECAPITULATION.

First quarter .....		\$150.00
Second quarter .....		225.00
Third quarter .....		225.00
Fourth quarter .....		225.00
Supplemental .....		75.00

Total .....		900.00
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## FIBER INVESTIGATIONS.

Date.	Name.	Nature of payment.	Total.
1892. July 31	Chas. R. Dodge <i>et al.</i> .....	Salaries for July .....	\$339.39
Aug. 6	Andrew Henderson .....	Salary for July .....	75.80
20	Thos. J. McLain .....	Hemp and green leaves .....	12.00
31	Chas. R. Dodge <i>et al.</i> .....	Salaries in August .....	313.30
Sept. 24	Andrew Henderson .....	do .....	75.80
30	United States Express Co. ....	Transportation in August .....	5.00
30	Charles R. Dodge <i>et al.</i> .....	Salaries for September .....	303.40
	Total first quarter .....		1,124.69
Oct. 3	Geo. W. Knox <i>et al.</i> .....	Freight in July .....	4.60
6	Talma Drew .....	Traveling expenses to New Orleans and return .....	56.75
10	Andrew Henderson .....	Salary for September .....	73.40
27	Richmond and Danville R. R. ....	Transportation, Drew <i>et al.</i> , September .....	55.00
28	Gus A. Breaux .....	Rannie for machine trials at New Orleans .....	500.00
31	Charles R. Dodge <i>et al.</i> .....	Salaries for October .....	313.30
Nov. 7	Andrew Henderson .....	Salary for October .....	75.80
12	S. M. Tracy .....	Expenses in September .....	15.90
30	Chas. R. Dodge <i>et al.</i> .....	Salaries for November .....	303.40
Dec. 3	N. H. Sword .....	Spinning wheel .....	15.00
3	E. N. Sword .....	Flax, samples, machinery, etc. ....	30.00
6	J. B. Chamberlain & Co. ....	Paper .....	3.90
6	Andrew Henderson .....	Salary for November .....	73.40
12	Adams Express Co. ....	Transportation, October .....	3.30
28	Louisville and Nashville R. R. Co. ....	Transportation, Dodge <i>et al.</i> .....	55.00
31	Chas. R. Dodge <i>et al.</i> .....	Salaries for December .....	313.30
	Total second quarter .....		1,892.05
1893. Jan. 6	Andrew Henderson .....	Salary for December .....	75.80
28	United States Express Co. ....	Transportation in December .....	1.25
31	Chas. R. Dodge <i>et al.</i> .....	Salaries for January .....	258.30
Feb. 7	Andrew Henderson .....	Salary for January .....	77.50
11	Geo. W. Knox Express .....	Freight charges .....	3.69
15	Adams Express Co. ....	Transportation, December .....	16.10
24	Chas. Richards Dodge .....	Expenses in December .....	27.55
28	Chas. R. Dodge <i>et al.</i> .....	Salaries for February .....	233.40
Mar. 11	W. J. Longbridge .....	Hemp seed, express charges, etc. ....	85.94
21	Adams Express Co. ....	Transportation, January .....	3.65
29	Geo. W. Knox Express .....	Freight and drayage, February .....	1.70
31	Chas. R. Dodge <i>et al.</i> .....	Salaries for March .....	258.30
	Total third quarter .....		1,043.18
Apr. 30	Chas. R. Dodge <i>et al.</i> .....	Salaries for April .....	247.20
May 31	Chas. R. Dodge .....	Salary for May .....	170.40
June 30	Chas. R. Dodge .....	Salary for June .....	164.80
	Total fourth quarter .....		582.40

## RECAPITULATION.

First quarter .....		\$1,124.69
Second quarter .....		1,892.05
Third quarter .....		1,043.18
Fourth quarter .....		582.40

Total .....		4,642.32
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Expenditures Department of Agriculture for fiscal year ending June 30, 1893—Cont'd.

## REPORT ON FORESTRY.

Date.	Name.	Nature of payment.	Total.
1892.			
Aug. 3	Filibert Roth	Salary for July	\$50.00
4	B. E. Fernow	Traveling expenses	13.50
10	Wyckoff, Seamans & Benedict	Repairs to typewriter	35.00
13	J. B. Johnson	Timber tests	960.00
31	N. H. Egleston	Salary for August	69.57
Sept. 3	B. E. Fernow	Traveling expenses from Washington to Rochester	34.36
5	Filibert Roth	Salary for August	50.00
12	John C. Parker	Photo blanks	8.00
13	J. B. Johnson	Tests on timber	1,193.00
30	Charles Mohr	Salary July 1 to Sept. 30	375.00
30	Geo. B. Sudworth	Expenses in August	17.98
30	Wilhelm Goeler Wittwe	Marking hammers	10.10
30	N. H. Egleston	Salary for September	130.40
	Total first quarter		2,946.91
Oct. 4	Filibert Roth	Salary for September	50.00
6	J. B. Johnson	Timber tests, September	644.00
12	Buxton & Skinner	Blanks for timber tests	10.00
18	Filibert Roth	Traveling expenses, September	206.10
19	L. D. Post & Co	Paper Mill Wood Pulp News	3.00
25	J. B. Chamberlain & Co	Photographic supplies	3.45
31	N. H. Egleston	Salary for October	134.80
Nov. 1	Filibert Roth	do	50.00
8	Adams Express Co	Transportation in September	1.10
9	J. B. Johnson	Timber tests, October	365.00
10	B. E. Fernow	Traveling expenses, Oct	18.95
11	Wm. Kent	Report on timber tests	200.00
12	Geo. B. Sudworth	Traveling expenses, Oct. 13	1.11
30	Charles Mohr	Salary October and November	248.60
30	N. H. Egleston	Salary for November	130.40
Dec. 3	Filibert Roth	do	50.00
5	S. H. Smith	Subscription Wood Worker April, 1892, to April, 1893	1.00
5	W. S. Williams	Timber tests Nov. 20 to 30	50.00
5	J. B. Johnson	Timber tests	642.00
10	Charles Mohr	Test material, 48 trees	268.80
23	D. W. Langdon	Seeds, <i>Pinus palustris</i>	10.00
28	W. C. Hampton	Black walnut seeds	15.00
30	Wyckoff, Seamans & Benedict	Remodeling typewriter	35.00
30	Adams Express Co	Transportation, November	7.45
31	N. H. Egleston	Salary for December	134.80
	Total second quarter		3,280.56
1893.			
Jan. 6	W. S. Williams	Salary, December (timber tests)	150.00
9	Charles Mohr	Timber test material	352.50
9	J. B. Johnson	Timber tests	768.00
10	Filibert Roth	Salary for December	50.00
10	C. S. Harrison	Pine and spruce seeds	140.00
17	W. S. Williams	Services, Jan. 1 to 11	53.23
19	B. E. Fernow	Traveling expenses, Jan. 9 to 14	87.85
21	Buxton & Skinner	Envelopes	3.25
24	Moses Gornberg	Report on resinous constituents of long pine, etc.	330.00
24	A. J. Johnson	Five pounds sugar pine seed	10.00
25	Shea, Smith & Co	Blanks for timber tests	12.50
31	Jno. Birkinbine	Report on manufacture charcoal	200.00
31	N. H. Egleston	Salary for January	137.80
Feb. 3	Charles Mohr	Salary for December and January	255.60
4	J. B. Johnson	Timber tests	702.00
7	Filibert Roth	Salary for January	50.00
9	E. R. Fish	Copying, etc	18.00
9	Karl A. Widen	do	32.00
11	Photo-Engraving Co	Engravings	19.50
11	Geo. W. Knox Express	Freight and drayage, December	3.43
15	Adams Express Co	Transportation, December	2.90
20	Photo-Engraving Co	Plates	30.68
28	Thomas Mechan & Co	Tree seeds	229.05
28	N. H. Egleston	Salary for February	124.40
Mar. 3	Filibert Roth	do	50.00
9	Photo-Engraving Co	Engraving plates, etc	5.00
16	Z. D. Gilman	Alcohol and turpentine	12.32
20	People's Dispatch Co	Transportation, seeds	1.12

Expenditures Department of Agriculture for fiscal year ending June 30, 1893—Cont'd.

## REPORT ON FORESTRY—Continued.

Date.	Name.	Nature of payment.	Total.
1893.			
Mar. 21	Adams Express Co .....	Transportation, January .....	\$4.60
31	N. H. Egleston .....	Salary for March .....	137.80
		Total third quarter .....	3,973.53
Apr. 12	Filibert Roth .....	Salary for March .....	50.00
21	The Standard Engraving Co .....	Engraving plate .....	9.00
24	J. B. Johnson .....	Transportation of timber test material .....	122.99
30	N. H. Egleston <i>et al.</i> .....	Salaries for April .....	181.90
May 2	Filibert Roth .....	Salary for April .....	50.00
13	Adams Express Co .....	Transportation in March .....	4.00
17	United States Express Co .....	Transportation in April .....	.35
29	American Book Co .....	One hundred copies Arbor day leaves .....	5.00
31	N. H. Egleston <i>et al.</i> .....	Salaries for May .....	186.20
June 5	Filibert Roth .....	Salary for May .....	50.00
10	Edward H. Waples .....	Weighing measuring test materials .....	17.50
10	James G. Brickfield .....	<i>do.</i> .....	22.00
14	Charles Mohr .....	Salary Feb. 1 to May 31 .....	497.20
20	United States Express Co .....	Transportation, May .....	.25
21	The Standard Engraving Co .....	Engraving plates .....	100.00
30	Karl N. Widen .....	Drawings for timber test bulletin .....	10.00
30	Austin Carey .....	Transmitting data on trees .....	28.50
30	Charles Mohr .....	Salary for June .....	123.60
30	N. H. Egleston <i>et al.</i> .....	Salaries for June .....	181.90
		Total fourth quarter .....	1,640.39
		Supplemental.	
July 18	Filibert Roth .....	Salary for June .....	50.00
Sept. 19	J. B. Johnson .....	Timber tests .....	36.00
Oct. 21	W. W. Johnson .....	Tree seed .....	6.00
		Total .....	92.00

## RECAPITULATION.

First quarter .....	\$2,946.91
Second quarter .....	3,280.56
Third quarter .....	3,973.53
Fourth quarter .....	1,640.39
Supplemental .....	92.00

Total .....

11,933.39

## ILLUSTRATIONS AND ENGRAVINGS.

Date.	Name.	Nature of payment.	Total.
1892.			
July 25	John C. Parker .....	Numbering machine, etc .....	\$19.50
29	W. B. Moses & Sons .....	Engraving table .....	38.00
Aug. 10	W. H. Veerhoff .....	Brushes, etc .....	1.70
11	Edward P. Mertz .....	Peterman's food .....	.60
27	Chas. Fischer .....	Spring forceps .....	16.50
Sept. 15	John C. Parker .....	Stationery .....	52.25
16	V. Grottenthaler Co .....	Inserting plugs in cut .....	2.00
		Total first quarter .....	130.55
Nov. 2	Henry Hinke .....	Objectives .....	115.00
3	Fred A. Schmidt .....	Paints, etc .....	10.30
8	Adams Express Co .....	Transportation in September .....	1.35
14	John C. Parker .....	Typewriter supplies, etc .....	95.21
16	Franklin Educational Co .....	Repairing camera .....	1.25
30	Henry Hinke .....	Microscope .....	65.00
30	United States Express Co .....	Transportation, October .....	1.00
Dec. 6	E. Burchard .....	Drawings of grasses .....	15.00
12	Adams Express Co .....	Transportation, October .....	3.95
15	United States Express Co .....	Transportation, November .....	1.10
30	Adams Express Co .....	Transportation, October .....	2.05
31	C. E. Casassa .....	Fruit .....	3.64
		Total second quarter .....	314.85

## EXPENDITURES IN DEPARTMENT OF AGRICULTURE. 37

Expenditures Department of Agriculture for fiscal year ending June 30, 1893—Cont'd.

## ILLUSTRATIONS AND ENGRAVINGS—Continued.

Date.	Name.	Nature of payment.	Total.
1893.			
Jan. 14	Fred Reh .....	Boxes .....	\$25.00
17	John C. Parker .....	Brushes, paints, etc .....	97.55
17	Geo. Marx .....	Traveling expenses to New York and Philadelphia Jan. 4-9 .....	35.55
Feb. 28	United States Express Co .....	Transportation in December .....	.90
1	V. Grottenthaler Co .....	Repairing wood engraved blocks .....	5.00
13	Wm. E. Lewis .....	Stationery, etc .....	164.68
15	Adams Express Co .....	Transportation, December .....	1.85
18	V. Grottenthaler Co .....	Engraving plates .....	3.00
18	Hanson Brothers .....	Electrotype cuts .....	4.50
24	Chas. Fischer .....	Repairing instruments, etc .....	8.00
25	George Maier .....	Portfolios, etc .....	3.75
Mar. 8	John C. Parker .....	Stationery .....	118.00
9	W. H. Veerhoff .....	Crayon paper .....	5.00
9	W. E. Lewis .....	Artists' materials .....	26.25
9	United States Express Co .....	Transportation, January .....	1.30
15	John Mooney .....	Woodcuts .....	60.75
17	United States Express Co .....	Transportation, February .....	2.75
21	Adams Express Co .....	Transportation, January .....	4.69
30	Hanson Brothers .....	Electrotyping cuts .....	1.40
30	Fred A. Schmidt .....	Protractor, compass, etc .....	31.95
	Total third quarter .....		602.03
Apr. 3	Eimer & Amend .....	Objectives, etc .....	479.14
4	R. Sharrock .....	Photographing on wood, etc .....	4.80
10	Fred Reh .....	Boxes .....	18.00
13	United States Express Co .....	Transportation, March .....	3.50
14	Adams Express Co .....	Transportation, February .....	2.50
21	Gibson Bros .....	Cuts .....	23.90
May 13	Adams Express Co .....	Transportation in March .....	2.30
16	R. Sharrock .....	Photographing on wood .....	4.55
17	United States Express Co .....	Transportation in April .....	1.55
29	W. H. Veerhoff .....	Proofs wood engravings, etc .....	25.30
June 12	Barber & Ross .....	Hardware .....	2.35
20	United States Express Co .....	Transportation, May .....	1.20
22	John C. Parker .....	Tracing paper, etc .....	14.60
22	Fred A. Schmidt .....	Artists' supplies .....	50.51
27	Charles Fischer .....	Case for drawing instruments .....	4.40
	Total fourth quarter .....		638.60
	Supplemental.		
July 24	Adams Express Co .....	Transportation in June .....	4.40
27	United States Express Co .....	do .....	7.35
31	John Mooney .....	Proof prints, etc .....	208.95
	Total .....		220.70

## RECAPITULATION.

First quarter .....		\$130.55
Second quarter .....		314.85
Third quarter .....		602.03
Fourth quarter .....		638.60
Supplemental .....		220.70
Total .....		1 906.73

## PURCHASE AND DISTRIBUTION OF VALUABLE SEEDS.

Date.	Name.	Nature of payment.	Total.
1892.			
July 15	E. C. Shock <i>et al.</i> .....	Labor, July 1 to 15 .....	\$210.00
15	C. G. Nye <i>et al.</i> .....	do .....	671.25
21	Christopher Hayes .....	Packing moss .....	20.00
21	L. Arnold .....	Making paper bags .....	24.93
29	R. J. Whittleton .....	Expenses in July .....	104.97
29	C. G. Nye .....	Making paper bags .....	30.00
29	J. F. Daniels .....	Making cotton bags .....	15.00
31	E. C. Shock <i>et al.</i> .....	Labor, July 16 to 31 .....	198.75
31	George I. Hall <i>et al.</i> .....	do .....	696.75
31	R. J. Whittleton <i>et al.</i> .....	Salaries for July .....	392.10
31	H. A. Howes <i>et al.</i> .....	Labor .....	210.70

*Expenditures Department of Agriculture for fiscal year ending June 30, 1893.—Cont'd.*

PURCHASE, ETC., OF VALUABLE SEEDS—Continued.

Date.	Name.	Nature of payment.	Total.
1892.			
Aug. 2	John C. Parker	Manila paper	\$576.00
5	L. Arnold	Making paper bags	26.31
6	Washington Gaslight Co.	Gas for July	14.25
12	J. F. Daniels	Making cotton bags	30.00
15	Sadie Ramsay <i>et al.</i>	Labor, Aug. 1 to 15, inclusive	226.50
15	M. Addie Krepps <i>et al.</i>	do	684.00
17	Lou H. Booth	Making paper bags	26.34
19	Lora V. Thorn	Making cotton bags	30.00
24	Lou H. Booth	Making paper bags	12.75
25	L. Arnold	do	35.03
26	J. F. Daniels	Making cotton bags	7.50
27	Robert Leitch & Sons	Rubber hose, etc.	12.40
30	C. G. Nye	Making paper bags in August	43.53
31	R. J. Whittleton <i>et al.</i>	Salaries in August	392.10
31	H. A. Howes <i>et al.</i>	do	222.30
31	A. J. Austin	Making paper bags	42.03
31	Fannie Pierce <i>et al.</i>	Labor, Aug. 16-31, inclusive	204.00
31	J. E. Dillinger <i>et al.</i>	do	781.50
Sept. 3	Lou H. Booth	Making paper bags	30.07
5	Maggie Taylor	Making cotton bags	19.59
5	Washington Gaslight Co.	Gas for August	15.25
9	Z. D. Gilman	Gum arabic, etc.	69.70
10	L. Arnold	Making paper bags	19.12
13	N. M. Thissell	Labor, Aug. 1 to 15	1.50
15	Woodward & Lothrop	Cotton, etc.	72.80
15	Pennsylvania R. R. Co.	Transportation, Whittleton, August	20.00
15	M. J. Rush <i>et al.</i>	Labor, Sept. 1 to 15	150.75
15	George I. Hall <i>et al.</i>	do	684.00
19	Easton & Rupp	Twine	64.63
23	J. F. Daniels	Making paper bags	39.37
27	J. & M. Strasburger	Shoe cases	6.00
30	United States Express Co.	Transportation in August	3.50
30	Z. D. Gilman	Gum arabic	119.35
30	R. J. Whittleton	Traveling expenses in August	41.09
30	do	Traveling expenses in September	56.93
30	M. J. Rush <i>et al.</i>	Labor, Sept. 16 to 30	158.25
30	George I. Hall <i>et al.</i>	do	720.00
30	do	Labor, Sept. 2	1.50
30	R. J. Whittleton <i>et al.</i>	Salaries for September	435.80
30	H. A. Howes <i>et al.</i>	do	215.40
	Total seeds		8,885.59
	Total printing, labor, etc.		1,378.70
	Total first quarter		10,264.29
Oct. 1	A. J. Austin	Making paper bags	35.21
3	J. M. Thornburn & Co	Flower seeds	155.25
3	do	Vegetable seeds	1,965.40
4	Wm. H. Arueth	Tinware	7.95
4	C. G. Nye	Making paper bags	40.18
7	Washington Gaslight Co.	Gas for September	16.25
7	L. Arnold	Making paper bags	21.15
12	F. P. May & Co	Barrow	50.00
12	Chicago, Milwaukee and St. Paul R. R. Co.	Transportation of Whittleton, July	9.70
13	Tice & Lynch	Bulbs	91.46
13	Polman Mooy	do	1,398.90
13	Lou H. Booth	Making paper bags	10.03
14	L. H. Hopkins	Shoe knives	6.25
15	A. M. Moore <i>et al.</i>	Labor, Oct. 1 to 15	302.25
15	Louis Beebe <i>et al.</i>	do	717.00
18	John C. Parker	Tags and seed pockets	322.52
19	B. E. Murray	Shoe boxes	5.25
19	Chicago, St. Paul, Minneapolis and Omaha Rwy. Co.	Transportation, Whittleton, July	11.05
25	Geo. W. Knox Express	Freight transportation, September	70.85
25	Gustav Rienecker	Smilax	7.50
25	C. Ponnet	Violets	37.50
26	Wm. H. Arueth	Brass wire rods	3.00
26	Lake Shore and Michigan Southern Rwy. Co.	Transportation, Whittleton, July	19.00
31	C. G. Nye	Making paper bags	39.12
31	C. G. Miller <i>et al.</i>	Labor, Oct. 16 to 31	321.00
31	Louis Beebe <i>et al.</i>	do	705.75
31	L. Arnold	Making paper bags	27.46
31	R. J. Whittleton <i>et al.</i>	Salaries for October	452.70
31	H. A. Howes <i>et al.</i>	do	226.80
Nov. 7	Washington Gaslight Co.	Gas for October	15.75
7	Alex. Schmid	Paper boxes	70.00

Expenditures Department of Agriculture for fiscal year ending June 30, 1893—Cont'd.

## PURCHASE, ETC., OF VALUABLE SEEDS—Continued.

Date.	Name.	Nature of payment.	Total.
1892.			
Nov. 8	Geo. Ryneal, jr.	Brushes	\$30.60
8	J. F. Daniels	Making paper bags	31.87
10	Peter Anderson & Co.	Vegetable seeds	5,171.00
10	do	Clover and grass seeds	2,694.60
11	Robt. Buist, jr.	Vegetable seeds	3,296.50
11	Northrup, Braslau & Goodwin Co.	Pease	350.00
11	do	Vegetable seeds	1,160.00
11	W. B. Moses & Sons.	Linoleum	16.00
12	L. Arnold	Making paper bags	50.03
15	J. T. Wattington <i>et al.</i>	Labor, Nov. 1 to 15	687.00
15	A. M. Moore <i>et al.</i>	do	350.25
16	Comstock, Ferre & Co.	Vegetable seeds and bags	356.62
16	J. L. Carpenter	Labor, Oct. 16 to 31	7.50
17	Phil. Stimmel	Vegetable seeds	1,531.25
17	Weeber & Don.	do	1,806.00
17	V. A. Bradshaw	Labor, Nov. 1 to 15	15.75
18	John C. Parker	Seed pockets	1,054.32
18	J. F. Daniels	Making paper bags	8.06
23	Jerome B. Rice & Co.	Tomato seed	200.00
23	do	Vegetable seed	1,875.00
23	L. S. Pollock <i>et al.</i>	Labor, Nov. 16 to 23	265.50
23	Louis Beebe <i>et al.</i>	do	361.50
23	B. M. Dodson <i>et al.</i>	do	363.00
26	Wm. Ballantyne's Sons	Rattan baskets	10.00
26	R. J. Whittleton	Traveling expenses, October	57.31
29	do	Traveling expenses, November	36.73
30	W. H. Houghton Manufacturing Co.	Chairs	70.00
30	C. R. Cooke <i>et al.</i>	Labor, Nov. 24 to 30, inclusive	343.50
30	Mollie R. Smith	Labor, Nov. 16 to 30, inclusive	19.50
30	Bertha E. Ellis	do	19.50
30	A. M. Moore <i>et al.</i>	Labor, Nov. 24 to 30, inclusive	313.50
30	Louis Beebe <i>et al.</i>	do	338.25
30	R. J. Whittleton <i>et al.</i>	Salaries for November	469.60
Dec. 1	H. A. Howes <i>et al.</i>	do	212.40
1	Grace Parker	Six days' labor in October	9.00
1	J. T. Wattington	Four days' labor in November	6.00
5	T. S. Hubbard Co.	Grape vines	337.50
5	Washington Gaslight Co.	Gas for November	17.50
5	J. M. Thorburn & Co.	Flower seed and pease	465.00
5	do	Vegetable and flower seed	1,412.15
6	L. Arnold	Making paper bags	40.87
8	Geo. W. Knox Express	Freight and drayage, September and October	324.93
8	do	Freight on bulbs	24.42
9	P. J. Berckmans	Roses	50.00
12	Adams Express Co.	Transportation, October	1.95
14	E. M. Rumph	Passion-flower seed	100.00
14	Sioux City Nursery and Seed Co.	Vegetable seeds	1,075.00
14	John A. Salzer Seed Co	Vegetable seeds and bags	1,091.90
14	Plant Seed Co.	Vegetable seeds	1,310.00
14	Jerome B. Rice & Co.	do	4,387.50
15	Jennie Hicks <i>et al.</i>	Labor, Dec. 1 to 15	709.50
15	Louis Beebe <i>et al.</i>	do	691.50
15	Grace Neale <i>et al.</i>	do	689.25
15	J. L. Carpenter <i>et al.</i>	do	675.00
15	R. C. Wilson <i>et al.</i>	do	113.25
16	Pennsylvania R. R. Co.	Transportation, Whittleton, October	17.00
17	Annie Hansbrough	Labor, Dec. 1 to 15	16.50
20	Jas. Carter, Dunnnett & Beale	Flower seeds and bags	686.60
20	D. Landreth & Sons	Vegetable seeds	2,208.00
21	Geo. W. Knox Express	Freight and drayage on seeds	231.30
21	R. J. Whittleton	Expenses in December	23.95
22	E. Morrison Paper Co.	Paper bags	5.00
23	J. F. Daniels	Making paper bags	40.06
24	Peter Henderson & Co.	Lily bulbs	100.00
24	L. Arnold	Making paper bags	26.38
24	E. C. Shock <i>et al.</i>	Labor, Dec. 16 to 24	330.75
24	C. F. Mason <i>et al.</i>	do	447.00
24	Louis Beebe <i>et al.</i>	do	448.50
24	J. W. Hanna <i>et al.</i>	do	452.25
24	M. A. Burdette <i>et al.</i>	do	458.25
28	Easton & Rupp	Twine	85.70
29	Weeber & Dou	Onion seeds	500.00
29	Phil. Stimmel	Vegetable seeds	237.50
29	do	do	500.00
29	do	do	1,125.00

Expenditures Department of Agriculture for fiscal year ending June 30, 1893—Cont'd.

## PURCHASE, ETC., OF VALUABLE SEEDS—Continued.

Date.	Name.	Nature of payment.	Total.
1892.			
Dec. 30	Emerson Brothers	Vegetable seeds	\$1,505.00
30	People's Dispatch Co	Freight charges, Sept. 23	38.52
30	Adams Express Co	Transportation, November	3.75
31	L. & J. Smart	Tobacco seed	112.00
31	Comstock, Ferre & Co	Vegetable, tobacco, corn, and bags	322.22
31	Sioux City Nursery and Seed Co.	Vegetable seeds	296.25
31	do	Pease	600.00
31	Lillian Sherman <i>et al.</i>	Labor, Dec. 26 to 31, inclusive	252.75
31	Louis Beebe <i>et al.</i>	do	350.25
31	M. A. Burdett <i>et al.</i>	do	247.25
31	K. B. Hackney <i>et al.</i>	do	337.50
31	Zita McNerhany <i>et al.</i>	do	335.25
31	R. J. Whittleton <i>et al.</i>	Salaries for December	502.70
31	H. A. Howes <i>et al.</i>	do	181.80
	Total seeds		57,392.37
	Total printing, etc.		1,418.72
	Total second quarter		58,811.09
1893.			
Jan. 7	Washington Gaslight Co	Gas for December	22.25
7	L. Arnold	Making paper bags	23.37
9	J. R. Wright	Labor, Dec. 25 to 31	9.00
10	Chesapeake & Potomac Telephone Co.	Telephone rent, Dec. 14 to 31	2.77
10	John C. Parker	Seed pockets and manila paper	1,738.65
11	The Chicago, Rock Island and Pacific R. R. Co.	Transportation, Whittleton, October	12.75
13	L. A. Solomon & Bro	Dextrine	198.30
14	Northrup, Braslaw & Goodwin Co.	Onion and ruta-baga seeds	161.00
14	do	Pease and bags	350.36
14	do	do	350.54
14	do	Onion seed	450.00
14	do	Beans	750.00
14	J. B. Hammond	Wooden tags	50.00
14	M. A. Morissette	Labor, Jan. 1 to 14, 7 days	10.50
14	L. M. Taylor <i>et al.</i>	Labor, Jan. 1 to 15	452.25
14	E. W. Jenkins <i>et al.</i>	do	605.25
14	Louis Beebe <i>et al.</i>	do	616.50
14	B. M. Dodson <i>et al.</i>	do	619.50
14	M. L. Beall <i>et al.</i>	do	628.25
14	Maggie Ott <i>et al.</i>	do	647.25
16	Maury Ward	Cotton seed	100.00
16	Annie Campbell	Labor, Jan. 2 to 16	12.00
16	H. M. Myers	Labor, Jan. 2 to 16, 5 days	7.50
19	Ernest Betz	Paste cups, tin plates and cans	28.00
23	W. A. Cook	Cotton seed	200.00
24	F. M. McDowell	Grape cuttings	137.60
24	Joseph J. Palmer	Tobacco seed	37.50
24	R. L. Ragland	do	150.80
24	Johnson Robbins & Co.	Corn and bags	185.00
24	do	Vegetable seeds and bags	1,155.30
24	Emerson Bros.	Pease	300.00
24	do	do	365.00
24	do	do	512.50
24	Geo. W. Knox Express	do	545.00
24	do	Freight, etc., on grape vines and bulbs	6.25
25	Lake Shore and Michigan Southern Rwy. Co.	Freight and drayage	730.19
25	Robert Buist, Jr.	Transportation, Whittleton, September	19.00
25	J. M. Thorburn & Co	Vegetable seeds	720.00
25	do	Sweet pease	25.00
25	do	Verbenia and zinnia seeds	60.00
25	do	Vegetable and flower seeds	165.00
25	do	Vegetable seeds	242.50
25	do	Flower seeds	517.00
25	do	Flower and vegetable seeds	655.00
25	do	do	697.75
26	Robert Gair	Seed pockets	1,075.64
27	Pomeroy & Pelton	Tobacco seeds	316.00
27	R. F. Kolb	Watermelon and cotton seed	600.00
27	Phil. Stimmel	Vegetable seeds	382.50
27	do	do	480.00
27	do	Beans	536.50
27	do	Beans, peas, and bags	593.50
27	do	Vegetable seeds	680.00

Expenditures Department of Agriculture for fiscal year ending June 30, 1893—Cont'd.

## PURCHASE, ETC., OF VALUABLE SEEDS—Continued.

Date.	Name.	Nature of payment.	Total.
1893.			
Jan. 28	John McDermott & Bro	Wagon	\$180.00
28	United States Express Co.	Transportation in December	1.25
28	L. Arno, <i>do</i>	Making paper bags	16.50
31	Louis Beebe <i>et al.</i>	Labor, Jan. 16 to 31	743.25
31	Marion Suit <i>et al.</i>	do	555.75
31	E. E. Bray <i>et al.</i>	do	762.75
31	Grace Neale <i>et al.</i>	do	765.75
31	G. H. Diggs <i>et al.</i>	do	768.00
31	B. M. Jeffries <i>et al.</i>	do	768.75
31	R. J. Whittleton <i>et al.</i>	Salaries for January	524.18
31	H. A. Howes <i>et al.</i>	do	186.00
Feb. 1	J. F. Daniels	Making paper bags	40.50
1	F. M. McDowell	Grape cuttings	82.40
7	Washington Gaslight Co.	Gas for January	26.75
8	Z. D. Gilman	Gum arabic	226.10
8	Geo. Ryneal, jr.	Brushes	7.00
9	Comstock, Ferre & Co.	Melon seed and bags	50.60
9	<i>do</i>	Tobacco seed and bag	85.20
9	Northrup, Braslau and Goodwin Co.	Corn	75.00
9	<i>do</i>	Vegetable seeds	186.98
9	<i>do</i>	Sweet corn and bags	201.02
9	John A. Salzer Seed Co.	Vegetable seeds and corn	339.58
9	Plant Seed Co.	do	358.00
9	<i>do</i>	do	390.00
9	D. Landreth & Sons	do	1,120.00
9	Sioux City Nursery and Seed Co.	Sweet corn	200.00
9	<i>do</i>	Beans	387.50
9	<i>do</i>	Vegetable seeds	462.50
9	L. Arnold	Making paper bags	16.25
11	Robert Gair	Manila seed bags	557.13
11	Geo. W. Knox Express	Freight and drayage, December and January.	696.65
11	John C. Parker	Seed pockets and tags	1,422.04
14	Chicago, Milwaukee and St. Paul Rwy Co.	Transportation, Whittleton, November.	11.60
14	Johnson, Robbins & Co.	Vegetable seeds and bags	111.40
14	Currie Bros.	do	480.35
14	James Carter, Dunnett & Beale	Flower seeds and bags	411.20
15	Wm. Ballantyne & Sons	Baskets	10.00
15	Adams Express Co.	Transportation, December	7.80
15	E. C. Shock <i>et al.</i>	Labor, Feb. 1 to 15	561.75
15	Jeannie McAtee <i>et al.</i>	do	689.25
15	Lou H. Booth <i>et al.</i>	do	722.25
15	Sue F. Gordon <i>et al.</i>	do	696.00
15	Lewis Beebe <i>et al.</i>	do	726.00
16	F. M. McDowell	Grape cuttings	72.00
17	F. D. Wimberly	Cotton seed	76.50
17	M. A. Armstrong	Labor, Feb. 16	1.50
18	Jerome B. Rice & Co.	Beans	652.00
18	<i>do</i>	Vegetable seeds	715.00
18	<i>do</i>	do	1,915.00
18	Ida C. Wells	Labor, Feb. 16 and 17	3.00
20	Emerson Bros.	Sweet corn	125.00
20	<i>do</i>	Vegetable seeds	133.75
20	<i>do</i>	Sweet corn	200.00
20	<i>do</i>	Vegetable seeds	937.50
21	Phil. Stimmel	do	101.00
21	<i>do</i>	Sweet corn	300.00
21	<i>do</i>	Vegetable seeds	316.00
21	Plant Seed Co.	Corn	150.00
21	<i>do</i>	do	150.00
21	<i>do</i>	Vegetable seeds	294.50
23	B. W. Hawkins	Cotton seed	75.00
23	F. M. McDowell	Grape cuttings	160.65
23	Peter Henderson & Co.	Corn and bags	57.00
23	<i>do</i>	Corn, onion seed, and bags	160.50
23	<i>do</i>	Vegetable seeds and corn	307.15
23	<i>do</i>	Vegetable seeds and bags	1,795.70
24	J. M. Thorburn & Co.	Moonflower seed	7.00
24	<i>do</i>	Chrysanthemum seed	33.00
28	A. L. Reilly <i>et al.</i>	Labor, Feb. 16 to 28	484.50
28	Florence Carr <i>et al.</i>	do	571.50
28	B. M. Jeffries <i>et al.</i>	do	594.75
28	Clark Bros.	Areca Lutesceus and Latania Beebonica	55.00
28	R. J. Whittleton <i>et al.</i>	Labor for February	452.41
28	H. A. Howes <i>et al.</i>	do	168.00

*Expenditures Department of Agriculture for fiscal year ending June 30, 1893—Cont'd.*

## PURCHASE, ETC., OF VALUABLE SEEDS—Continued.

Date.	Name.	Nature of payment.	Total.
1893.			
Mar. 1	N. C. Dorsey	Labor, Feb. 1 to 3	\$4.50
1	L. Arnold	Making paper bags	31.75
2	Ernest Betz	Labor and material	1.70
2	Eva Hilton	Labor, Feb. 16 to 23	4.50
7	Robert Buist, jr.	Sweet corn and sacks	348.40
7	D. Landreth & Sons	Vegetable seeds and bags	482.60
7	Robert Gair	Manila seed bags	815.02
9	Wells & Nieman	Tobacco seeds	26.06
10	Washington Gaslight Co	Gas for February	24.00
10	J. F. Daniels	Making seed bags	40.12
11	John C. Parker	Seed pockets	900.45
11	Tice & Lynch	Clearing and forwarding cotton seed	11.25
11	H. G. Bowland	Labor, Feb. 21	1.50
15	F. Barteldes & Co	Vegetable seeds and bags	648.76
15	J. M. Thorburn & Co	Flower seed	9.00
15	Emerson Bros	Pumpkin seed	25.00
15	Jerome R. Rice & Co	Vegetable seed	215.00
15	John C. Parker	Seed pockets	288.75
15	M. F. Robinson <i>et al.</i>	Labor, Mar. 1 to 15	499.50
15	Carrie Kelly <i>et al.</i>	do	335.25
15	Rebecca Chapman <i>et al.</i>	do	691.50
15	Louis Beebe <i>et al.</i>	do	725.25
15	Garrett & Buchanan	Manila paper	25.50
16	E. S. Kibbey	Labor, 2 days March	3.00
16	M. L. Larner	Labor, 5 days March	7.50
18	H. L. Biscoe	Rope, etc	11.99
18	Peter Henderson & Co	Flower seeds, etc	46.80
20	Peoples Dispatch Co	Transportation, seeds, January	12.01
20	do	Grape cuttings	6.90
21	Adams Express Co	Transportation, January	4.40
22	L. Arnold	Making seed bags	32.37
23	Phil. Stimmel	Vegetable seeds	257.50
28	Robert Gair	Seed bags	274.73
31	B. M. Vaughan <i>et al.</i>	Labor, Mar. 16 to 31	165.00
31	K. B. Hackney <i>et al.</i>	do	714.00
31	Louis Beebe <i>et al.</i>	do	775.50
31	R. J. Whittleton <i>et al.</i>	Salaries for March	460.40
31	H. A. Howes <i>et al.</i>	Labor for March	226.00
	Total seeds		57,659.87
	Total printing, etc.		1,405.69
	Total third quarter		59,065.56
Apr. 3	George W. Knox Express	Freight and drayage, January and February	297.96
3	J. T. Lovett	Strawberry plants	86.30
4	Northrup, Braslau and Goodwin Co.	Squash seeds and bags	30.44
4	J. M. Thorburn & Co	Sweet corn	175.00
8	The Chesapeake and Potomac Telephone Co.	Telephone rent, Jan. 1 to Mar. 31, 1893	15.00
8	L. H. Hopkins	Rope	1.05
8	A. L. Reilly	Labor, Apr. 1 to 8, 7 days	10.50
8	Washington Gaslight Co	Gas for March	19.00
10	Don P. Halsey	Labor, 1 day in March	1.50
12	Sioux City Nursery and Seed Co	Beet seed	60.00
12	do	Beans and bags	204.50
15	Amelia Rehelt <i>et al.</i>	Labor, Apr. 1 to 15	232.50
15	J. W. Elwood <i>et al.</i>	do	683.25
18	Mrs. Don P. Halsey	Labor 2½ days in April	3.75
18	Peter Henderson & Co	Chrysanthemums	4.25
21	Samuel Merrill	Jute seeds, etc.	8.63
22	E. C. Shock	Labor, Mar. 1 to 15	5.25
24	George W. Knox Express	Freight and drayage, February and March	14.59
25	F. Barteldes & Co	Vegetable seeds and bags	65.72
26	J. F. Daniels	Making paper bags	39.68
28	N. M. Thissell	Labor, Mar. 16	1.50
30	A. E. Marschalk <i>et al.</i>	Labor, Apr. 16 to 30	396.75
30	M. E. Thorn <i>et al.</i>	Labor for April	298.30
30	A. E. Eaton <i>et al.</i>	do	158.60
May 3	E. C. Little, agent and consul-general	Purchase and shipment cotton seed	77.40
6	Washington Gaslight Co.	Gas for April	18.00
13	George W. Knox Express	Freight charges, etc., March	13.30
15	J. B. Peck	Salary, May 1 to 15	82.42
15	A. E. Marschalk <i>et al.</i>	Labor, May 1 to 15	414.00
17	Ernest Betz	Repairs to boiler	2.38
26	B. F. Stevens	Freight, etc., on 2 boxes from Calcutta	5.97

Expenditures Department of Agriculture for fiscal year ending June 30, 1893—Cont'd

## PURCHASE, ETC., OF VALUABLE SEEDS—Continued.

Date.	Name.	Nature of payment.	Total.
1893.			
May 31	E. A. Barbaux <i>et al</i> .....	Labor, May 16 to 31 .....	\$470.25
31	M. E. Thorn <i>et al</i> .....	Labor for May .....	303.40
31	A. E. Eaton <i>et al</i> .....	.....do.....	162.80
June 9	Washington Gaslight Co .....	Gas for May .....	17.50
12	Geo. Ryneal, jr .....	Lights (glass), etc .....	13.06
15	E. A. Barbaux <i>et al</i> .....	Labor, June 1 to 15 .....	431.25
30	.....do.....	Labor, June 15 to 30 .....	442.50
30	M. E. Thorn <i>et al</i> .....	Labor for June .....	337.30
	Total seeds .....		5,605.55
	Total printing, etc .....		1,027.25
	Total fourth quarter .....		6,632.80
	<i>Supplemental.</i>		
July 5	Washington Gaslight Co .....	Gas for June .....	19.75
20	The Chesapeake and Potomac Telephone Co. .....	Telephone rent, Apr. 1 to June 30 .....	15.00
31	Mrs. Don P. Halsey .....	Labor in May .....	2.25
16	Oerichs & Co. .....	Transportation cotton seed .....	11.23
	Total seed .....		48.23
	Total printing, etc .....		50.50
	Total .....		98.73

## RECAPITULATION.

First quarter .....	\$10,264.29
Second quarter .....	58,811.09
Third quarter .....	59,065.56
Fourth quarter .....	6,632.80
Supplemental .....	98.73
Total .....	134,872.47

## SEEDS, PRINTING, LABOR, ETC.

Date.	Name.	Nature of payment.	Total.
1892.			
July 21	Frank Helmick <i>et al</i> .....	Labor for July .....	\$440.80
Aug. 31	.....do.....	Labor for August .....	448.30
Sept. 13	J. H. Mills & Co. .....	Printers' supplies .....	36.70
30	Frank Helmick <i>et al</i> .....	Labor for September .....	452.90
	Total first quarter .....		1,378.70
Oct. 17	J. H. Mills & Co. .....	Printers' supplies .....	45.15
31	Frank Helmick <i>et al</i> .....	Labor for October .....	440.80
Nov. 8	Geo. Ryneal, jr .....	Danford fluid .....	1.50
30	Frank Helmick <i>et al</i> .....	Labor for November .....	433.40
Dec. 12	Geo. Ryneal, jr .....	Danford fluid .....	.75
16	J. H. Mills & Co. .....	Printers' supplies .....	39.10
16	C. B. Fenton & Co .....	Roller casting .....	17.22
31	Frank Helmick <i>et al</i> .....	Labor for December .....	440.80
	Total second quarter .....		1,418.72
1893.			
Jan. 9	J. H. Mills & Co. .....	Printers' supplies .....	66.54
31	Frank Helmick <i>et al</i> .....	Labor for January .....	456.80
Feb. 28	.....do.....	Labor for February .....	380.40
Mar. 2	George Ryneal, jr .....	Danford fluid .....	.75
9	W. C. Newton & Co .....	Printers' supplies .....	16.60
10	J. H. Mills & Co .....	.....do.....	15.30
15	.....do.....	Autograph signatures, etc .....	5.00
31	Frank Helmick <i>et al</i> .....	Labor for March .....	464.30
	Total third quarter .....		1,405.69
Apr. 10	J. H. Mills & Co. .....	Signatures and engraving .....	5.00
10	Geo. Ryneal, jr .....	Danford fluid .....	.75
13	W. C. Newton & Co .....	Recasting rollers, etc .....	17.00

Expenditures Department of Agriculture for fiscal year ending June 30, 1893—Cont'd.

## SEEDS, PRINTING, LABOR, ETC.—Continued.

Date.	Name.	Nature of payment.	Total.
1893.			
Apr. 30	Frank Helmick <i>et al.</i>	Labor for April .....	\$325.60
May 31	do .....	Labor for May .....	339.80
June 30	do .....	Labor for June .....	339.10
		Total fourth quarter .....	1,027.25
		Supplemental.	
July 1	W. C. Newton & Co .....	Printers' supplies .....	50.50

## RECAPITULATION.

First quarter .....	\$1,378.70
Second quarter .....	1,418.72
Third quarter .....	1,405.69
Fourth quarter .....	1,027.25
Supplemental .....	50.50
Total .....	5,280.86

## DOCUMENT AND FOLDING ROOM.

Date.	Name.	Nature of payment.	Total.
1892.			
July 29	Ernest Betz .....	Galv. cups and plates .....	\$5.28
Sept. 12	John C. Parker .....	Manila envelopes .....	532.65
		Total first quarter .....	537.93
Oct. 10	Chesapeake and Potomac Telephone Co.	Telephone rent, July 1 to Sept. 30 .....	15.00
Dec. 18	John C. Parker .....	Clasp envelopes .....	150.00
Dec. 12	Herman Baumgarten .....	Stamps .....	8.00
31	Z. D. Gilman .....	Gum arabic .....	123.55
		Total second quarter .....	296.55
1893.			
Jan. 10	Chesapeake and Potomac Telephone Co.	Telephone rent, Oct. 1 to Dec. 31 .....	15.00
10	John C. Parker .....	Manila paper .....	276.25
14	J. B. Hammond .....	Wooden tags .....	10.00
Mar. 29	Easton & Rupp .....	Lacing twine .....	10.00
		Total third quarter .....	311.25
Apr. 8	Chesapeake and Potomac Telephone Co.	Telephone rent, Jan. 1 Mar. 31 .....	15.00
22	John C. Parker .....	Manila paper and envelopes .....	277.82
		Total fourth quarter .....	292.82
		Supplemental.	
July 19	John C. Parker .....	Manila envelopes, etc .....	170.00
20	Chesapeake and Potomac Telephone Co.	Telephone rent, Apr. 1 to June 30 .....	15.00
		Total supplemental .....	185.00

## RECAPITULATION.

First quarter .....	\$537.93
Second quarter .....	296.55
Third quarter .....	311.25
Fourth quarter .....	292.82
Supplemental .....	185.00
Total .....	1,623.55

## EXPENDITURES IN DEPARTMENT OF AGRICULTURE.

45

Expenditures Department of Agriculture for fiscal year ending June 30, 1893—Cont'd.

## EXPERIMENTAL GARDENS AND GROUNDS, MACHINERY, ETC.

Date.	Name.	Nature of payment.	Total.
1892.			
July 7	U. M. Ferguson	Straw	\$10.74
16	Paul Hiser, jr., & Bro.	Flower pots	76.50
29	Ernest Betz	Repairs to greenhouse	15.20
31	W. L. Phillips <i>et al.</i>	Salaries for July	390.00
Aug. 9	Alex. J. Wedderburn	Superphosphates	85.50
10	C. A. Schneider's Sons	Iron braces	19.80
10	Geo. Ryneal, jr.	Paint, oil, etc	71.73
11	Edwd. S. Schmid	Hydro sprayer	6.00
12	Church & Stephenson	Lumber	58.10
13	P. M. Brown	Labor making drawings, etc	58.50
23	F. M. Steep	Hire of cart, July 27-29	20.25
31	W. L. Phillips <i>et al.</i>	Salaries for August	405.00
Sept. 8	Christopher Hayes	Leaf mold	30.00
13	H. L. Crawford	Laying pavement, etc	2,329.37
15	T. W. Burr	Straw	13.45
16	Adams Express Co.	Transportation, July	13.55
19	Church & Stephenson	Lumber	40.07
19	Geo. Ryneal, jr.	Glass	41.65
19	Robert Leitch & Sons	Pipes, etc	1,459.59
19	Geo. W. Knox Express	Freight charges	8.10
23	John McDermott & Bro.	Repairing wagons	168.50
27	E. Hippard	Ventilating apparatus	95.88
27	James M. Hall	Tobacco stems	10.70
30	United States Express Co.	Transportation in August	2.20
30	W. L. Phillips <i>et al.</i>	Salaries for September	312.00
	Total garden and grounds, machinery, etc.		5,742.38
	Total garden and grounds, labor.		4,625.00
	Total first quarter		10,367.38
Oct. 1	Ernest Betz	Tinning, etc.	95.30
6	Jos. P. Brass	Sand	22.00
10	Edwd. S. Schmid	Labels and stakes	156.25
10	John A. Power & Co.	Steam fitting	306.00
11	National Capital Ice Co.	Manure	57.00
14	L. H. Hopkins	Hardware, etc	19.16
19	Church & Stephenson	Lumber	9.11
25	Jos. F. Collins	Brickwork	45.56
25	Geo. W. Knox Express	Freight and drayage, August	3.78
31	W. L. Phillips <i>et al.</i>	Salaries for October	312.00
Nov. 4	Ernest Betz	Repairs to greenhouse	31.36
8	James Cochran	Hardware	10.75
8	Geo. Ryneal, jr.	White lead	20.25
30	W. L. Phillips <i>et al.</i>	Salaries for November	312.00
Dec. 1	N. E. Harvey	Labor, Nov. 23 to 30	12.00
5	Wm. E. Clark & Co.	Lawn mower, scales, etc.	85.00
9	Polman Mooy	Coryalaria pipes and case	39.10
10	Tice & Lynch	Freight charges on bulbs	7.04
30	Adams Express Co.	Transportation, November	15.40
31	N. E. Harvey	Salary for December	40.00
31	W. L. Phillips <i>et al.</i>	Salaries for December	324.00
	Total gardens and grounds, machinery, etc.		1,923.06
	Total gardens and grounds, labor.		4,640.00
	Total second quarter		6,563.06
1893.			
Jan. 3	Paul Hiser, jr., & Bro.	Flower pots	5.75
10	L. H. Hopkins	Hardware	7.15
14	Wm. E. Clark & Co.	Spades, barrows, knives, etc.	76.90
14	Church & Stephenson	Lumber	8.91
31	W. L. Phillips <i>et al.</i>	Salaries for January	312.00
Feb. 11	Geo. W. Knox Express	Freight, January	3.98
28	W. L. Phillips <i>et al.</i>	Salaries for February	288.00
Mar. 20	Ed. S. Schmid	Labels	16.50
21	Adams Express Co.	Transportation, January	1.05
29	Geo. W. Knox Express	Freight and drayage, February	4.82
31	W. L. Phillips <i>et al.</i>	Salaries for March	324.00
	Total gardens and grounds, machinery, etc.		1,018.56
	Total gardens and grounds, labor.		4,678.71
	Total third quarter		5,727.27

Expenditures Department of Agriculture for fiscal year ending June 30, 1893—Cont'd.

## EXPERIMENTAL GARDENS AND GROUNDS, MACHINERY, ETC.—Continued.

Date.	Name.	Nature of payment.	Total.
1893.			
April 8	James Cochran	Bolts, chain, etc.	\$6.50
8	Ernest Betz	Repairs on tool house, etc.	5.10
13	United States Express Co.	Transportation, March	12.15
18	Geo. F. Flint	Manure	9.00
30	W. L. Phillips <i>et al.</i>	Salaries for April	150.00
May 17	United States Express Co.	Transportation, April	.40
31	W. L. Phillips <i>et al.</i>	Salaries for May	162.00
June 12	Church & Stephenson	Lumber	4.16
19	Geo. W. Knox Express	Freight and drayage, May 22	1.57
30	A. E. Eaton <i>et al.</i>	Salaries for June	552.10
	Total gardens and grounds, machinery, etc.		902.98
	Total gardens and grounds, labor.		4,552.50
	Total fourth quarter		5,455.48
	<i>Supplemental.</i>		
July 20	L. H. Hopkins	Locks, etc.	1.90

## RECAPITULATION.

First quarter		\$10,367.38
Second quarter		6,563.06
Third quarter		5,727.27
Fourth quarter		5,455.48
Supplemental		1.90

Total 28,115.09

## EXPERIMENTAL GARDENS AND GROUNDS, LABOR.

Date.	Name.	Nature of payment.	Total.
1892.			
July 31	Jas. K. Kerr <i>et al.</i>	Labor in July	\$1,557.80
Aug. 31	do	Labor in August	1,557.80
Sept. 30	do	Labor in September	1,509.40
	Total first quarter		4,625.00
Oct. 31	Jas. K. Kerr <i>et al.</i>	Labor in October	1,562.80
Nov. 30	do	Labor in November	1,514.40
Dec. 31	do	Labor in December	1,562.80
	Total second quarter		4,640.00
1893.			
Jan. 31	Jas. K. Kerr <i>et al.</i>	Labor in January	1,598.60
Feb. 28	do	Labor in February	1,442.80
Mar. 11	L. D. Frost	Labor, Mar. 1 to 8	16.00
31	Jas. K. Kerr <i>et al.</i>	Labor for March	1,621.31
	Total third quarter		4,678.71
Apr. 30	Jas. K. Kerr <i>et al.</i>	Labor for April	1,579.70
May 31	do	Labor for May	1,630.60
June 30	do	Labor for June	1,342.20
	Total fourth quarter		4,552.50

## RECAPITULATION.

First quarter		\$4,625.00
Second quarter		4,640.00
Third quarter		4,678.71
Fourth quarter		4,552.50

Total 18,496.21

## EXPENDITURES IN DEPARTMENT OF AGRICULTURE.

47

*Expenditures Department of Agriculture for fiscal year ending June 30, 1893—Cont'd.*

## MUSEUM.

Date.	Name.	Nature of payment.	Total.
1892.			
July 31	E. Stephan <i>et al.</i>	Salaries for July	\$156.10
Aug. 3	Walter F. Gould	Wooden plow of 1783	6.00
16	Barber & Ross	Band saw, etc	35.00
16	People's Dispatch Co.	Freight and drayage	1.67
31	G. B. Brackett <i>et al.</i>	Salaries for August	326.10
Sept. 9	Z. D. Gilman	Naphthalene	.40
30	G. B. Brackett <i>et al.</i>	Salaries for September	316.80
		Total for first quarter	842.07
Oct. 31	G. B. Brackett <i>et al.</i>	Salaries for October	330.60
Nov. 30	do	Salaries for November	293.77
Dec. 5	Washington Gaslight Co	Gas for November	6.75
31	G. B. Brackett <i>et al.</i>	Salaries for December	314.20
		Total second quarter	945.32
1893.			
Jan. 7	Washington Gaslight Co	Gas for December	7.00
31	G. B. Brackett <i>et al.</i>	Salaries for January	385.30
Feb. 7	Washington Gaslight Co	Gas for January	9.00
28	G. B. Brackett <i>et al.</i>	Salaries for February	409.67
Mar. 7	James P. Machen	Plow	5.09
10	Washington Gaslight Co	Gas for February	8.50
15	Carlile Smith	Plow	10.00
15	W. W. Moore	Plows	10.00
21	Adams Express Co.	Transportation, January	3.65
27	Jakob Eriksson	Specimens of cereals	8.41
31	G. B. Brackett <i>et al.</i>	Salaries for March	484.20
		Total third quarter	1,340.73
Apr. 8	L. H. Hopkins	Feather dusters, etc	5.35
8	Washington Gaslight Co	Gas for March	7.25
12	Robert Stone	Plow	8.00
13	United States Express Co.	Transportation, March	1.65
30	G. B. Brackett <i>et al.</i>	Salaries for April	454.40
May 6	Washington Gaslight Co	do	8.00
13	Geo. W. Knox Express	Freight and drayage for April	1.37
29	James Harris	Services May 1 to 15, inclusive	24.73
31	Henry Winckelman <i>et al.</i>	Salaries for May	163.40
June 9	Washington Gaslight Co	Gas for May	6.50
30	Henry Winckelman <i>et al.</i>	Salaries for June	158.30
		Total fourth quarter	838.95
		Supplemental.	
July 5	Washington Gaslight Co	Gas for June	4.00
20	Z. D. Gilman	Benzine, etc.	2.60
		Total	6.60

## RECAPITULATION.

First quarter		\$842.07
Second quarter		945.32
Third quarter		1,340.73
Fourth quarter		838.95
Supplemental		6.60
Total		3,973.67

## FURNITURE CASES AND REPAIRS.

Date.	Name.	Nature of payment.	Total.
1892.			
July 15	George A. Carter <i>et al.</i>	Labor, July 1 to 15	\$156.00
29	Ernest Betz	Tinning	524.40
31	Wm. G. Spencer <i>et al.</i>	Labor for July	252.00
Aug. 2	A. S. Burgess	Labor, 1½ days in August	4.50
3	The M. Ohmer's Sons Co.	Desks	76.00
3	Forsberg & Murray	Repairing elevator	18.00
6	Charles W. Tinly	Labor in August	12.00
6	W. M. Whyte & Bro.	Skylight	24.00

Expenditures Department of Agriculture for fiscal year ending June 30, 1893—Cont'd.

## FURNITURE CASES AND REPAIRS—Continued.

Date.	Name.	Nature of payment.	Total.
1892.			
Aug. 23	W. B. Moses & Sons	Matting, etc.	\$26.98
24	William H. Lacey	Repairs to laboratory	6.00
25	Thos. Somerville & Sons	Globe valves	67.50
31	George A. Carter <i>et al.</i>	Labor	270.00
Sept. 6	John A. Power & Co.	Plumbing, etc.	652.17
14	Ernest Betz	Sheet tin, etc.	5.75
15	Thos. Somerville & Sons	Hardware	54.98
30	Geo. A. Carter <i>et al.</i>	Labor for September	413.00
		Total first quarter	2,563.28
Oct. 20	Jos. F. Collins	Lining fire walls, etc.	445.65
20	do	Repairing chemical laboratory	9.00
26	Thos. C. Basshor & Co.	Ret. bends	3.65
31	Jas. McClelland <i>et al.</i>	Salaries for October	364.00
Nov. 3	Thos. Somerville & Sons	Radiator, valves, etc.	201.66
8	Geo. Ryneal, Jr.	Glass	2.10
10	Church & Stephenson	Lumber	3.25
10	John A. Power & Co.	Plumbing	91.03
11	W. B. Moses & Sons	Furniture, etc.	67.72
21	The M. Ohmer's Sons Co.	Document and letter files	184.50
28	John S. P. Green	Papering, etc.	10.13
30	Jas. McClelland <i>et al.</i>	Salaries for November	360.00
Dec. 6	W. B. Moses & Sons	Furniture, etc.	21.05
6	do	Carpet, etc.	50.04
8	Ernest Betz	Repairing roof	13.20
23	Rob't Leitch & Sons	Radiator, pipe, etc.	90.57
28	W. B. Moses & Sons	Carpets, chairs, etc.	212.75
31	Jos. McClelland <i>et al.</i>	Salaries for December	457.50
		Total second quarter	2,587.80
1893.			
Jan. 4	Woodward & Lothrop	Felt	6.00
14	Wm. H. Lacey	Repairs in basement	20.00
17	Ernest Betz	Radiator	18.00
21	Frank Culver	Labor for January	3.00
21	F. Petersen	Shades	10.50
31	Jos. McClelland <i>et al.</i>	Salaries for January	440.50
Feb. 3	Robert Leitch & Sons	Radiators, etc.	52.15
24	Chas. D. Harvey	Plumbing	9.75
24	W. B. Moses & Sons	Repairing chairs, etc.	31.50
24	do	Furniture, carpets, etc.	252.55
28	Jos. McClelland <i>et al.</i>	Salaries for February	361.00
Mar. 16	W. H. Houghton Mfg. Co.	Chair	6.50
18	W. B. Moses & Sons	Desk and chair	40.00
28	Office Specialty Mfg. Co.	Laboratory case	40.00
31	R. E. L. Thompson <i>et al.</i>	Salaries for March	243.00
		Total third quarter	1,534.45
Apr. 8	Ernest Betz	Repairs to seed building	11.50
28	Wm. H. Lacy	Plastering, etc.	10.00
29	James H. McGill	Cement	3.50
30	R. E. L. Thompson <i>et al.</i>	Salaries for April	222.00
May 2	W. B. Moses & Sons	Upholstering, etc.	41.75
6	Geo. Ryneal, Jr.	Glass	8.80
12	John A. Power & Co.	Plumbing	25.00
12	Church & Stephenson	Lumber	7.19
17	Ernest Betz	Repairing roof	3.60
17	W. B. Moses & Sons	Matting laid	8.75
17	Thos. Somerville & Sons	Brass counterscreen, etc.	37.81
19	Wash. B. Williams	Matting laid	16.50
25	Wm. H. Lacy	Plastering	8.00
26	Wilmarth & Edmonston	Cooler and stand	9.50
26	do	do	20.75
31	Geo. A. Carter <i>et al.</i>	Salaries for May	243.00
June 3	H. O. Towles	Furniture	61.13
5	Chas. A. Freedman	Rearranging counter, Disbursing Office	55.00
5	L. H. Schneider's Sons	Hinges	4.25
5	J. H. Chesley & Co.	Push plates, etc.	1.85
6	W. B. Moses & Sons	Repairing chairs	4.00
12	John A. Power & Co.	Plumbers' supplies	109.75
12	do	do	8.74
12	Geo. Ryneal, Jr.	Paints, oils, etc.	28.55
12	Church & Stephenson	Lumber	18.18
17	Jos. F. Collins	Labor and material, June	95.00
17	do	do	12.00
23	Ernest Betz	Tinning roof	14.66
27	F. H. Quast & Co.	Two-thirds yard blue cloth	1.67

## EXPENDITURES IN DEPARTMENT OF AGRICULTURE.

49

*Expenditures Department of Agriculture for fiscal year ending June 30, 1893—Cont'd.*

## FURNITURE CASES AND REPAIRS—Continued.

Date.	Name.	Nature of payment.	Total.
1893.			
June 27	Wash. B. Williams		\$143.35
30	H. O. Towles	Chair and table	15.30
30	Geo. A. Carter <i>et al.</i>	Salaries for June	234.00
	Total fourth quarter		1,485.08
	<i>Supplemental.</i>		
July 5	Geo. Ryneal, jr.	Lead, oils, etc	121.49
7	Wm. H. Lacy	Labor and material, plastering	97.00
19	John C. Parker	Dictionary stand	5.00
20	M. G. Copeland & Co.	Awnings	34.00
20	M. W. Beveridge	Pitcher	.75
20	Church & Stephenson	Lumber	56.70
20	Thos. Somerville & Sons	Pipe, etc.	121.90
20	L. H. Hopkins	Hardware	20.01
21	John A. Power & Co	Plumbing, etc.	59.14
21	do	do	36.00
Aug. 19	Barber & Ross	Screens	18.00
	Total		569.99

## RECAPITULATION.

First quarter		\$2,563.28
Second quarter		2,587.80
Third quarter		1,534.45
Fourth quarter		1,485.08
Supplemental		569.99

Total		8,740.60
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## LIBRARY.

Date.	Name.	Nature of payment.	Total.
1892.			
July 9	Thos. Meehan & Son	Subscription, Meehan's Monthly, July, 1892 to 1893.	\$2.00
9	F. E. Northous	Cyclopedias, Spofford & Annandale	20.00
12	B. Westermann & Co.	Foreign publications	6.02
19	Forest and Stream Publishing Co.	Subscription, 1 year, to July 29, 1893	4.00
19	American Field Publishing Co.	Subscription, July 16, 1892, to July 16, 1893	5.00
19	George E. Maury	2 volumes "Curious Questions"	6.00
21	Rural Publishing Co.	Annals of Horticulture, 1890 and 1891	2.00
21	The Tribune Association	Subscription, 1 year from July 1, 1892	10.00
25	Wm. Ballantyne & Sons	Statesman's Year Book, etc.	67.65
26	P. F. Van Hamel Roos	Subscription, Revue des Falsifications, 1892-'93	4.00
26	Robt. E. C. Stearns	Geological Survey collection ornithology, etc.	49.25
29	W. H. Lowdermilk & Co	Scientific American, 1846 to 1891, 41 volumes.	155.50
30	G. P. Putnam & Son	Haydn's Dictionary of Dates	5.00
Aug. 2	W. H. Lowdermilk & Co	Kryptogramm Flora, 3 parts	1.95
2	do	Cyclopedias of Manufacture and Products of the United States	4.00
25	W. H. Walmesley	Photo-micrographs of leaves	15.00
27	B. Westermann & Co	Foreign books	9.92
Sept. 5	L. S. Foster	North American Birds	.75
13	W. H. Lowdermilk & Co.	Books	24.45
	Total first quarter		392.49
Oct. 4	M. Riegersche	Forststellungen naturwissenschaft zeitschrift.	3.25
5	Geo. Stewart	McPherson's Handbook of Politics	2.00
7	National Geographic Society	National Geographic Magazine, 4 volumes	10.00
12	L. Tucker & Son	Subscription, Country Gentleman, July, 1892-'93	2.50
12	J. B. Johnson	The Engineering Index	2.50
14	Em. Terquem	Subscription, Progrés Agricole, to July, 1893.	4.01
Nov. 9	The Lumber Trade Journal	Subscription, Oct. 1, 1892, to Oct. 1, 1893	2.00

*Expenditures Department of Agriculture for fiscal year ending June 30, 1893—Cont'd.*

## LIBRARY—Continued.

Date.	Name.	Nature of payment.	Total.
1892.			
Nov. 9	Edw. L. Greene.....	Pittonia, volumes 1 and 2.....	\$5.00
10	A. Bouchereau.....	Louisiana Sugar Report, 1890-1892.....	6.00
10	Wm. Wesley & Son.....	Subscriptions to periodicals.....	29.34
11	Paul Parey.....	Foreign publications.....	38.28
11	do.....	do.....	53.67
14	John C. Parker.....	Book supports.....	36.00
18	Wm. Ballantyne & Sons.....	Books.....	103.19
19	Edw. L. Greene.....	Flora Franciscana.....	2.50
21	William Wesley & Son.....	Odographia.....	2.92
21	do.....	Foreign publications, etc.....	84.31
21	do.....	do.....	159.88
Dec. 2	Albert H. Storer.....	Subscription, Shipping and Corn List, and New York Price Current, Nov. 10, 1892, to Nov. 10, 1893.....	9.00
2	Carl Schoenhof.....	Biologia Centrali Amer., 101, 102, and 103.....	19.44
7	R. Friedländer & Sohn.....	Foreign publications.....	4.76
7	do.....	do.....	38.50
7	do.....	do.....	45.70
7	do.....	do.....	154.80
12	Henry Holt & Co.....	Crozier Botanical Dictionary.....	3.00
13	Bauer & Raspe.....	Spinners Amerikas, 2 volumes.....	20.00
16	B. Westermann & Co.....	Foreign publications.....	1.08
19	Good Roads (League of American Wheelmen). .....	Subscription, July, 1892 to 1893, and 1 bound volume.....	4.00
21	William Wesley & Son.....	Foreign publications.....	13.84
	Total second quarter.....		861.47
1893.			
Jan. 4	The Rural Publishing Co.....	The Rural New Yorker, Jan. 7, 1893, to Dec. 30, 1893.....	1.00
4	Munn & Co.....	Scientific American Architect and Buildings Edition, January, 1892, to January, 1894.....	2.50
9	Wm. B. Dana & Co.....	Subscription, Commercial and Financial Chronicle for January 1893.....	10.00
11	Willis L. Jepson.....	Subscription, Erythea, 1 year, 1893.....	1.50
11	B. Westermann & Co.....	Foreign publications.....	7.20
16	Blackie & Son, Limited.....	Principles of Agriculture, parts 1 and 2.....	2.25
16	Houghton, Mifflin & Co.....	Subscription, Butterflies N. A., Pt. XIII.....	2.25
24	W. H. Lowdermilk & Co.....	"American Farms." quill pens, etc.....	1.35
Feb. 9	William Wesley & Son.....	Baker's New Ferns, etc.....	2.75
9	do.....	Entomologists' Record, volumes 1 and 2 and subscription to volume 3.....	7.00
11	L. S. Foster.....	The Auk, 1893.....	3.00
11	The Torrey Botanical Club.....	Bulletin Torrey Botanical Club, 3 copies.....	6.00
11	John M. Coulter.....	Subscription, Botanical Gazette, 1893, 3 copies.....	7.50
11	American Agriculturist.....	Subscription, January, 1893, to January, 1894.....	1.00
11	A. E. Foote.....	Books.....	15.30
11	E. T. Cresson.....	Subscription, Entomological News, volume 4, 1893.....	1.00
11	R. H. Warder.....	American Pomology, etc.....	6.05
11	Robert Beall.....	Dictionary Political Economy, part 3.....	1.25
11	Wm. Ballantyne & Sons.....	Mexico of To-day, etc.....	33.40
13	M. C. Cook.....	Atlas.....	1.36
17	Em. Ter quem.....	Periodicals for 1893.....	128.68
18	Garden and Forest Publishing Co.....	Subscription, Jan. 4, 1893, to Dec. 27, 1893.....	4.00
21	Wm. Wesley & Son.....	Periodicals for 1892 and 1893.....	83.43
21	B. Westermann & Co.....	Foreign publications.....	7.58
23	Jas. D. & E. S. Dana.....	American Journal of Science.....	12.00
24	M. E. Mann.....	Appleton's Atlas.....	17.50
28	G. E. Stechert.....	The Ibis, January to December, 1893.....	6.00
28	Garden and Forest Publishing Co.....	Subscription Feb. 22, 1893, to Feb. 14, 1894.....	4.00
28	Binder & Kelly.....	American Naturalist, January to December, 1893.....	4.00
Mar. 1	Robert Beall.....	Books.....	3.50
2	Engineering News Publishing Co.....	Subscription, Jan. 1, 1893, to Dec. 28, 1893.....	5.00
3	Frank H. Vaslit.....	Two copies Zoe, and subscription January to December, 1893.....	8.00
7	Munn & Co.....	Subscription, Scientific American, Jan. 1, 1893, to Jan. 1, 1894.....	7.00
9	Macmillan & Co.....	Weissmann Heredity, 2 vols.....	2.97
10	Em. Ter quem.....	Foreign publications.....	9.27
14	Wm. Wesley & Son.....	Books for Ornithological Division.....	4.63

Expenditures Department of Agriculture for fiscal year ending June 30, 1893—Cont'd.

## LIBRARY—Continued.

Date.	Name.	Nature of payment.	Total.
1893.			
Mar. 14	Wm. Wesley & Son	Books	\$7.00
14	do	Subscriptions to foreign publications	8.50
14	do	Foreign publications	9.29
14	do	do	43.43
14	do	do	44.00
14	do	do	73.00
15	The Boston Journal of Commerce Publishing Co.	Subscription, Dec. 24, 1892, to Dec. 24, 1893	3.00
23	Macmillan & Co.	Subscription to Natural Science, Mar. 8, 1893, to Mar. 8, 1894	3.00
28	The Textile Record Co.	Subscription, January, 1893, to January, 1894	3.00
28	Edward Hart	Journal Analytical and Applied Chemistry	3.00
28	N. Murray	American Chemical Journal, January, 1893, to January, 1894	4.00
30	American Academy Political and Social Science.	History, Theory, and Technique of Statistics.	1.50
	Total third quarter		623.85
April 3	Seth H. Chadbourne	Aiton's Hortus Kewensis, 5 volumes	3.00
3	B. Westermann & Co.	Foreign publications	1.29
4	The Rural Publishing Co.	American Gardening, Apr. 1, 1893, to Mar. 31, 1894	1.00
4	The Writer Publishing Co.	Writing for the Press, 2 copies	2.00
10	Robert Beall	Books	2.25
10	W. H. Lowdermilk & Co.	do	40.61
10	J. Cardot	Foreign publications	1.33
12	Smythe, Britton & Poore Co.	Irrigation Age, Jan. 1, 1893, to Jan. 1, 1894	2.00
12	Romeyn B. Hough	American Woods, Part III, 2 copies	10.00
13	M. E. Mann	The Earth and Its Inhabitants, vol. 3, 1893	7.00
21	Carl Schoenhof	Biologia Centrali Americana, Nos. 104 and 105	12.96
21	Wm. Ballantyne & Sons	Popular Science Monthly, 1893, etc	51.80
28	William Frear	2 copies Agricultural Science, vol. VII	4.00
28	W. H. Lowdermilk & Co.	Poole's Index, vol. 3	8.00
28	R. Friedländer & Sohn	Foreign publications	25.91
May 12	F. H. Knowlton	Proceedings Biological Society	6.40
12	W. B. Judson	Subscription Northwestern Lumberman to April 15, 1894	4.00
12	Academy of Natural Sciences	Proceedings, 1893	5.00
12	B. N. Rowley	Fruit Grower, Dec. 31, 1892, to Dec. 31, 1893	3.00
12	E. T. Cresson	American Entomological Society, vol. 20, 1893	4.00
13	M. E. Mann	Appleton's Annual Encyclopaedia, 1892	7.00
16	Paul Parey	Subscription and purchase foreign publications	131.66
June 16	Eyre & Spottiswoode	Subscription International Customs Journal, April, 1893, to March, 1894	4.87
27	Robert Beall	1 Forest Planting and part 5 Palgrave's Dictionary of Political Economy	2.75
28	B. Westermann & Co	Foreign publications	3.29
28	R. Friedländer & Sohn	do	40.22
28	do	Subscription foreign publications, July to December, 1892	12.17
28	do	Subscription foreign publications for 1893	93.05
29	Eyre & Spottiswoode	Reports on condition of agricultural laborer	.85
30	The Houston Post	Subscription beginning June 1, 1893	8.00
	Total fourth quarter		499.41
	Supplemental.		
July 1	S. E. Cassino	Naturalists' Directory	4.00
10	William Wesley & Son	Subscriptions to periodicals, etc	96.23
19	John C. Parker	Postal Guide	1.60
23	Wm. Ballantyne & Sons	Books	15.85
21	George W. York & Co	American Bee Journal, Jan. 1 to Dec. 31, 1893	1.00
21	The Timberman	July 1, 1892, to July 1, 1893	2.00
Sept. 11	B. Westermann & Co	Foreign publications	4.00
11	do	do	2.25
Oct. 3	Louisiana Planter and Sugar Manufacturer Co.	Subscription Louisiana Planter, May 1, 1893, to May 1, 1894	3.00
23	William Wesley & Son	Index Kewensis, part 1	10.50
	Total		140.43

*Expenditures Department of Agriculture for fiscal year ending June 30, 1893—Cont'd.*

## LIBRARY—Continued.

## RECAPITULATION.

First quarter .....		\$392.46
Second quarter .....		861.47
Third quarter .....		623.85
Fourth quarter .....		499.41
Supplemental .....		140.43
Total .....		2,517.65

## POSTAGE.

Date.	Name.	Nature of payment.	Total.
1892.			
Aug. 24	Washington City post-office .....	Postage stamps .....	\$300.00
Sept. 22	do .....	do .....	100.00
	Total first quarter .....		400.00
Oct. 18	Washington City post-office .....	Postage stamps .....	515.00
Dec. 3	do .....	do .....	60.00
	Total second quarter .....		575.00
1893.			
Jan. —	Washington City post-office .....	Postage stamps .....	585.00
Feb. —	do .....	do .....	700.00
Mar. —	do .....	do .....	500.00
	Total third quarter .....		2,150.00
May 8	Washington City post-office .....	Postage stamps .....	500.00
20	do .....	do .....	60.00
June 22	Postmaster, Washington, D. C.	.....	20.00
27	Henry Sherwood, postmaster .....	do .....	150.00
	Total fourth quarter .....		730.00

## RECAPITULATION.

First quarter .....		\$400.00
Second quarter .....		575.00
Third quarter .....		2,000.00
Fourth quarter .....		730.00
Total .....		3,705.00

## CONTINGENT EXPENSES.

Date.	Name.	Nature of payment.	Total.
1892.			
July 21	J. M. Rusk .....	Traveling expenses self and private secretary, July.	\$63.00
25	Seaton Perry .....	Roller towels .....	19.44
26	American Ice Co. ....	Coal .....	928.91
29	Chas. Werner .....	Wood .....	26.70
29	Frank Aldrich .....	Scales .....	4.00
Aug. 2	Williams & Hanks .....	Pulleys .....	7.30
2	India Alkali Works .....	Putz liquid .....	14.00
2	Laura Williams .....	Washing towels, July .....	25.00
3	Forsberg & Murray .....	Elevator .....	165.00
6	C. Becker .....	Whip, collar, etc. ....	18.75
6	Geo. Ryneal, jr. ....	French glass .....	8.70
6	Washington Gaslight Co. ....	Gas for July .....	72.75
10	Z. D. Gilman .....	Fly paper .....	.60
10	John C. Parker .....	Toilet paper .....	74.50
10	Western Union Telegraph Co. ....	Cablegrams .....	5.59
11	John H. Magruder .....	Matches .....	7.50
11	Murray & Barker .....	Shoeing horses, July .....	38.50
11	Wm. A. Gaskins .....	Feed .....	43.31
12	Church & Stephenson .....	Lumber .....	312.22
12	John C. Parker .....	Repairing typewriter, etc. ....	47.50
13	The Hygienic Ice Co. ....	Ice for July .....	59.95
16	People's Dispatch Co. ....	Freight .....	1.45
18	Chas. M. Schmidt & Co. ....	World's insect killer .....	12.00
20	United States Express Co. ....	Transportation in July .....	4.05
22	H. B. Cannon .....	Expenses in August .....	1.40

Expenditures Department of Agriculture for fiscal year ending June 30, 1893—Cont'd.

## CONTINGENT EXPENSES—Continued.

Date.	Name.	Nature of payment.	Total.
1892.			
Aug. 23	W. B. Moses & Sons	Cleaning and relaying carpets	148.75
30	Barber & Ross	1 band saw	125.00
30	E. F. Lambert	Repairing basket	3.00
Sept. 2	Laura Williams	Washing towels, August	25.00
5	Nathaniel Shotwell	Expenses, Aug. 22-31	15.90
5	Geo. Ryneal, Jr.	Glass cutter, etc.	53.51
5	Western Union Telegraph Co.	Cablegrams to London	6.05
5	Washington Gaslight Co.	Gas in August	73.75
5	Williams & Hanks	One pulley	2.75
5	J. Baumgarten & Son	Stamps	2.75
6	M. A. Tappan	Pistol cartridges	4.50
9	C. Becker	Horse brushes, etc.	16.25
9	James Smith	Whitewashing	24.00
9	American Ice Co.	Coal	599.24
9	Z. D. Gilman	Sponges, etc.	34.35
9	Henry Casson	Expenses to Chicago and Milwaukee	45.45
9	J. M. Rusk	Traveling expenses for self and secretary	121.85
10	United States Electric Lighting Co.	Electricity	107.15
12	John C. Parker	Stationery, etc.	213.68
13	Capitol, North O Street and South Washington Rwy. Co.	Car tickets	20.83
14	Ernest Betz	Oil cans, etc.	35.90
15	Thos. Somerville & Sons	Leather belting, etc.	80.72
15	Church & Stephenson	Lumber	110.89
15	J. B. Bryan & Bro.	Soap	35.28
15	Pennsylvania Railroad Co.	Transportation, Casson, August	24.50
16	Adams Express Co.	Transportation in July	2.30
19	Murray & Barker	Shoeing horses, August	51.00
19	Easton & Rupp	Twine, etc.	144.05
19	Geo. W. Knox Express	Drayage on liquid polish	.50
19	Bureau of Press Clippings	Clippings for July	4.08
24	Wm. A. Gaskins	Oats	45.26
27	Charles Werner	Wood	26.70
28	Woodward & Lothrop	Sheeting	10.00
28	John McDermott & Bro.	Repairs, etc.	35.50
30	United States Express Co.	Transportation in August	4.70
30	F. W. Murray	Plumbing	4.50
30	Geo. Wm. Hill	Traveling expenses, September	3.10
	Total first quarter.		4,284.61
Oct. 3	J. H. Wilkerson	Inspecting boilers	30.00
3	Adams Express Co.	Transportation in August	3.70
3	Laura Williams	Washing towels, September	25.00
4	J. Baumgarten & Son	Stamps	4.50
4	Wm. Ballantyne's Sons	Stationery, etc.	128.48
5	Thos. M. Hyneman	Dental surgery for horses	33.00
5	Jas. F. McElhone	Letter books	5.25
5	U. S. Electric Lighting Co.	Use electric lamps, September	103.95
5	American Ice Co.	Coal	518.19
7	John A. Power & Co.	Plumbing, etc.	47.31
7	B. J. Downey & Son	Harness	45.00
7	do	do	65.00
7	Washington Gaslight Co.	Gas for September	84.25
10	Chesapeake and Potomac Telephone Co.	Telephone rent, July 1 to Sept. 30	168.00
10	Jas. L. Barbour & Son	Buhach	16.80
10	Wm. N. Gaskins	Feed	60.30
10	Baltimore and Ohio R. R. Co.	Transportation, Henry Casson, August	17.50
12	Geo. T. Powell	Expenses in September	21.44
14	Springman's Express	Hauling	1.50
14	J. B. Chamberlain	Photo prints	4.32
14	W. H. Hoeke	Rugs	9.00
14	Capitol, North O Street and South Washington Rwy. Co.	Car tickets	20.83
14	James Cochran	Repairs, etc.	22.95
14	do	Bolts, hooks, etc.	39.10
14	G. T. Raub	Hay	81.40
14	John C. Parker	Stationery	232.80
14	L. H. Hopkins	Rat trap	1.50
14	do	Hardware	117.91
15	Columbia Rubber Works Co.	Bands	166.02
15	Lewis Hoffenmaier	Drill press	37.50
17	J. E. Wakefield	Wrenches, clamps, etc.	27.50
18	Alex. Schmid	File jackets	44.00
18	United States Express Co.	Transportation in September	2.30
20	Murray & Barker	Shoeing horses, September	43.25
25	Church & Stephenson	Lumber	127.97

Expenditures Department of Agriculture for fiscal year ending June 30, 1893—Cont'd.

## CONTINGENT EXPENSES—Continued.

Date.	Name.	Nature of payment.	Total.
1892.			
Oct. 27	J. Baumgarten & Son	Stamp	\$4.50
27	Wash. Weaver	Straw	11.95
28	L. H. Schneider's Son	Rat traps	15.00
Nov. 2	The U. S. Electric Lighting Co.	Electric lights for October	106.75
2	Laura Williams	Washing towels, October	25.00
7	Washington Gaslight Co.	Gas for October	82.25
7	Western Union Telegraph Co.	Cablegrams	34.83
7	Wm. A. Gaskins	Feed	45.00
7	Murray & Barker	Shoeing horses	32.50
8	Z. D. Gilman	Soap	1.08
8	Geo. Ryneal, jr.	White lead, etc	22.95
8	do	Oil, putty, etc	108.69
9	India Alkali Works	Savogran	22.75
10	Church & Stephenson	Lumber	32.67
10	do	do	22.00
11	Ernest Betz	Tank for grindstone	4.00
14	John C. Parker	Stationery, etc	305.85
17	J. Baumgarten & Son	Rubber stamps, etc	18.50
17	Chas. Werner	Wood	53.40
17	S. A. Johnson, collector	Duty and fees on books	.60
18	M. G. Copeland & Co	Flags and awnings	70.75
18	do	Use of decorations for G. A. R., September, 1892.	275.00
19	H. C. Castle	" Klips "	5.00
19	Wm. B. Morgan	Magnesia sectional covering	13.71
21	A. Lisner	Soap	19.80
21	F. P. Jacobs	Clipping horse	3.00
22	J. M. Rusk	Expenses to New York and return	19.00
22	do	Expenses self and private secretary to Milwaukee, Chicago, etc., Oct. 16 to 26.	135.1
22	do	Expenses self and private secretary to Milwaukee, Chicago, etc., Oct. 28 to Nov. 11.	147.50
22	John C. Parker	Typewriter supplies	76.64
28	H. C. Castle	Klips and keys	10.60
28	United States Express Co.	Transportation in October	.50
30	N. V. Randolph & Co.	Cloth trays	6.55
Dec. 2	John McDermott & Bro.	Repairs, etc	12.00
2	do	Repairing office carriage	57.50
2	Laura Williams	Washing towels, November	25.00
2	Western Union Telegraph Co.	Cablegrams, November	14.88
5	John L. Wise	Scrubbrushes	12.75
5	Murray & Barker	Shoeing horses	32.00
5	Wm. A. Gaskins	Feed	59.76
5	Seaton Ferry	Towels	78.84
5	Washington Gaslight Co.	Gas for November	73.50
5	J. Baumgarten & Son	Numbering machine and stamps	32.00
6	U. S. Electric Lighting Co.	Electric light for November	103.00
6	Capitol, North O Street and South Washington Rwy Co.	Car tickets	4.17
6	do	do	20.83
8	W. S. Tappan	Cleaning clocks	7.25
8	Geo. W. Knox Express	Freight and drayage, October	13.51
10	Capitol, North O Street and South Washington Rwy Co.	Car tickets	20.83
10	Chas. Werner	Wood	80.10
12	Geo. Ryneal, jr.	White lead, etc.	136.27
12	Z. D. Gilman	Carboy	1.75
12	Adams Express Co.	Transportation, October	1.90
15	American Ice Co.	Coal	40.18
15	United States Express Co.	Transportation, November	2.15
15	Estler Bros. & Co.	Potatoes, etc	4.75
15	H. R. Miles	Repairing fire-alarm box	10.15
16	James B. Lambie	Keys, etc	15.75
17	Belt & Dyer	Lumber	9.44
17	American Ice Co.	Coal	506.01
21	Geo. W. Knox Express	Freight and drayage, November	2.32
21	John C. Parker	Stationery, etc	496.70
22	Norman Bestor, Agt.	Pasturing horses, etc.	28.95
22	Geo. H. Gaddis & Co.	Gas radiator	12.00
22	Easton & Rupp	Stationery	144.78
22	Frank Aldrich	Scales	2.00
27	G. T. Raub	Feed	85.69
28	W. S. Tappan	Cleaning clocks	4.50
28	Ratcliff, Darr & Co.	Commission	.32
30	People's Dispatch Co.	Freight charges	2.48
30	Adams Express Co.	Transportation, November	1.30
31	M. A. Tappan	Revolver and cartridges	16.90
	Total second quarter		6,265.26

Expenditures Department of Agriculture for fiscal year ending June 30, 1893—Cont'd.

## CONTINGENT EXPENSES—Continued.

Date.	Name.	Nature of payment.	Total.
1893.			
Jan. 3	Laura Williams.	Washing towels, December	\$25.00
7	The U. S. Electric Lighting Co.	Use arc lamps in grounds, December	105.59
7	Washington Gaslight Co.	Gas for December	87.25
9	J. H. Chesley & Co.	Brooms	16.26
9	Wm. A. Gaskins	Feed	42.42
10	L. H. Hopkins	Hardware	131.05
10	Chesapeake and Potomac Telephone Co.	Telephone rent, Oct. 1 to Dec. 31	168.00
10	John C. Parker	Stationery, etc.	244.22
14	Capitol, North O Street and South Washington Rwy. Co.	Car tickets	20.83
14	Western Union Telegraph Co.	Cablegrams	7.88
14	W. S. Tappan	Wall clock	14.00
14	Royce & Marean	Maintenance Observatory clock, July 1 to Dec. 31	2.50
14	do	Electrical supplies	33.50
14	Church & Stephenson	Lumber	155.82
16	Wm. G. Bayley	Straw	10.08
17	C. Becker	Repairing harness, etc.	31.05
17	Wilmarth & Edmonston	Spittoons, cooiers, etc.	62.13
17	Murray & Barker	Shoeing horses	26.00
17	Ernest Betz	Stove, etc.	19.00
17	do	Resetting tiling, etc.	40.50
28	Charles Werner	Wood	106.80
Feb. 1	J. H. Mills & Co.	Electros	5.00
1	W. A. Pate	Lap robe	9.00
1	John H. Davis	Schlicht index	75.00
1	Julius Lansburgh	Draping Department on death ex-President Hayes.	300.00
2	James Cochrane	Hardware, etc.	18.25
2	Laura Williams.	Washing towels, January	25.00
3	Ratcliff, Darr & Co.	Commission, etc.	3.55
3	Murray & Barker	Shoeing horses	44.75
4	American Ice Co.	Coal	770.26
4	Wm. A. Gaskins	Feed	41.58
4	John A. Power & Co.	Plumbing, etc.	150.87
4	S. A. Johnson, collector	Duty on books, etc.	1.00
6	People's Dispatch Co.	Freight charges, December	.75
6	Western Union Telegraph Co.	Cablegrams	11.53
6	J. Baumgarten & Son	Stamps	7.25
7	U. S. Electric Lighting Co.	Electric light for grounds, January	108.05
7	Washington Gaslight Co.	Gas for January	112.75
8	C. Becker	Fur robe, etc.	21.25
8	Thomas Somerville & Sons	Cotton waste, etc.	18.74
8	do	Leather belting, etc.	67.01
8	Z. D. Gilman	Brushes, etc.	.85
8	Geo. Ryneal, jr.	Lead, etc.	30.73
8	do	Thumb tacks, etc.	38.71
8	Church & Stephenson	Lumber	70.44
9	National Oil Works and Mill Supply Co.	Machinery oil	41.60
11	Bureau of Press Clippings	Clippings	2.24
11	Political Bureau of Clippings	do	8.70
11	Wyckoff, Seaman & Benedict	Remodeling typewrite	30.00
11	Springman's Express	Hauling, etc.	8.25
11	J. T. Thompson	Embossing	65.25
15	Jas. L. Barbour & Son	Bon Ami	5.00
15	F. P. May & Co.	Letter scales	2.25
15	Wm. Ballantyne's Sons	Cartage	.50
15	do	Stationery	416.35
15	Adams Express Co.	Transportation, December	2.35
15	K. Nicolaides	Vase	4.00
16	John C. Parker	Typewriter supplies	146.48
16	do	Stationery, etc.	434.71
17	Gould Packing Co.	Gould's packing	15.60
18	M. G. Copeland & Co.	Flag	18.00
18	Capitol, North O Street and South Washington Rwy. Co.	Car tickets	20.83
20	The Sentinel Co.	Subscription Milwaukee Sentinel, July 1, 1892 to Mar. 1, 1893.	6.70
20	American Ice Co.	Coal	193.81
24	G. T. Raub	Hay	77.23
27	The Hygienic Ice Co.	Ice	234.16
1	The Columbia Rubber Works Co.	Bands	67.88
1	A. P. McElroy	Oak molding, etc.	5.20
2	Geo. Ryneal, jr.	Glass	6.15
2	do	Lead, glass, etc.	53.65
2	American Ice Co.	Coal	286.02
2	Laura Williams	Washing towels, February	25.00

*Expenditures Department of Agriculture for fiscal year ending June 30, 1893—Cont'd.*

## CONTINGENT EXPENSES—Continued.

Date.	Name.	Nature of payment.	Total.
1893.			
Mar. 3	John McDermott & Bro .....	Repairing, etc.....	\$44.00
6	J. M. Rusk .....	Traveling expenses to Fremont, Ohio, and return.	14.00
7	Wyckoff, Seamans & Benedict .....	Repairing typewriters, etc.....	47.50
7	Ratcliffe, Darr & Co. ....	Services as auctioneers, February.....	20.93
7	C. Becker.....	Horse-clipper.....	4.50
7	do.....	Robe and horse blankets.....	33.00
7	Wm. A. Gaskins .....	Feed.....	41.58
7	The United States Electric Lighting Co. ....	Electric light, February.....	96.40
8	John C. Parker .....	Remodeling typewriter.....	45.00
8	Western Union Telegraph Co. ....	Cablegram.....	5.36
8	J. B. Bryan & Bro. ....	Soap.....	48.00
8	Springman's Express .....	Hauling books.....	2.50
8	Z. D. Gilman .....	Chamois skins.....	2.50
9	O. D. La Dow .....	Traveling expenses, New York to Washington and return.	23.27
9	A. P. McElroy .....	Oak molding, etc.....	4.84
10	Washington Gaslight Co. ....	Gas for February.....	96.00
10	The Evening Star Newspaper Co. ....	"Star," July 1, 1892, to March 4, 1893.....	3.60
11	John C. Parker .....	Typewriter supplies.....	56.25
11	do.....	Stationery.....	233.96
11	Chas. Werner .....	Wood.....	42.72
15	Geo. Ryneal, Jr. ....	Glass.....	.45
16	A. P. McElroy .....	Oak molding.....	4.20
16	Church & Stephenson .....	Lumber.....	26.69
16	American Ice Co. ....	Coal.....	196.14
17	United States Express Co. ....	Transportation, February.....	2.75
18	J. Baumgarten & Son .....	Stamp.....	26.25
20	Capitol, North O Street and South Washington Rwy. Co. ....	Car tickets.....	20.83
20	Woodward & Lothrop .....	Brushes, etc.....	7.25
21	Adams Express Co. ....	Transportation, January.....	2.35
23	Bureau of Press Clippings .....	Clippings.....	2.10
23	Woodward & Lothrop .....	Towels.....	50.00
24	The Fairbanks Co. ....	Scales, truck, etc.....	37.85
24	Ernest Betz .....	Watering pots, etc.....	31.50
24	Murray & Parker .....	Shoeing horses, February.....	45.00
29	Easton & Rupp .....	Stationery.....	121.70
29	Wyckoff, Seamans & Benedict .....	Typewriter, etc.....	102.86
30	Office Specialty Manufacturing Co. ....	Copier, etc.....	55.00
	Total third quarter .....		7,048.89
Apr. 3	Chas. Werner .....	Wood.....	90.78
3	J. Baumgarten & Son .....	Stamps and ink.....	8.25
3	Laura Williams .....	Washing towels, March.....	25.00
7	A. S. Gillingham .....	Straw.....	10.86
8	Murray & Barker .....	Shoeing horses, March.....	29.75
8	The Hygienic Ice Co. ....	Ice, January, February, and March.....	83.82
8	The United States Electric Lighting Co. ....	Electric lights, Department grounds, March.....	108.35
8	The Chesapeake and Potomac Telephone Co. ....	Telephone rent for March, etc.....	163.70
8	L. H. Hopkins .....	Hardware, etc.....	89.40
8	American Ice Co. ....	Coal.....	289.22
8	Washington Gaslight Co. ....	Gas for March.....	86.25
10	People's Dispatch Co. ....	Transportation in February.....	1.43
10	John H. Magruder .....	Matches.....	7.50
10	E. F. Lambert .....	Towel basket.....	9.00
10	Wm. Ballantyne & Sons .....	Stationery.....	218.51
10	Geo. Ryneal, Jr. ....	Bluestone and coal oil.....	12.77
10	Western Union Telegraph Co. ....	Cablegrams in March.....	6.38
13	Church & Stephenson .....	Lumber.....	53.98
13	United States Express Co. ....	Transportation, March.....	1.00
14	Church & Stephenson .....	Lumber.....	13.75
14	Adams Express Co. ....	Transportation, February.....	4.15
20	J. Baumgarten & Son .....	Stamps.....	18.50
24	Geo. W. Knox Express .....	Freight, March.....	.89
26	A. B. Crane .....	Expenses trip from Norfolk, Va., to Washington.....	7.10
26	E. W. Raub .....	Hay.....	49.98
28	V. G. Fisher, manager .....	Plate and die.....	14.50
29	Wyckoff, Seamans & Benedict .....	Adjusting typewriter.....	.50
29	do.....	Repairs to typewriter.....	12.00
May 3	Laura Williams .....	Washing towels, April.....	25.00

## EXPENDITURES IN DEPARTMENT OF AGRICULTURE.

57

*Expenditures Department of Agriculture for fiscal year ending June 30, 1893—Cont'd.*

## CONTINGENT EXPENSES—Continued.

Date.	Name.	Nature of payment.	Total.
1893.			
May 5	F. B. Crane	Traveling expenses, Norfolk to Washington and return, April.	\$8.05
6	Western Union Telegraph Co.	Cablegram	2.37
6	The United States Electric Lighting Co.	Electric light for April	104.72
6	Washington Gaslight Co.	Gas for April	88.75
6	Wm. A. Gaskins	Feed	70.56
6	H. S. Nichols	Expenses, Norfolk to Washington and return, May.	8.85
12	Estier Bro. & Co	Candles	3.75
12	Jno. S. Arnold, superintendent	Telegrams	.76
12	Murray & Barker	Shoeing horses in April	24.25
12	Church & Stephenson	Lumber	10.40
12	Smithsonian Institution	Transportation of exchanges, Jan. 1 to Mar. 31, 1893.	2.60
12	Belt Railway Co.	Street-car tickets	20.83
12	Z. D. Gilman	Medium Florida sponge	50.00
13	Adams Express Co.	Transportation in March	3.05
13	Royce & Marean	Maintenance Department clock, quarter ending Mar. 31.	1.25
13	do	Electrical supplies	8.90
17	United States Express Co.	Transportation, April	6.00
19	Woodward & Lothrop	Brushes and combs	5.70
22	Chas. Werner	Wood	53.40
25	Wyckoff, Seamans & Benedict	Typewriter supplies	9.00
25	American Ice Co.	Coal	68.09
25	Adams Express Co.	Transportation in April	1.80
25	J. M. Gileson	Hay	13.42
26	Wilmarth & Edmonston	Feather dusters, etc.	69.65
June 2	Laura Williams	Washing towels for May	25.00
6	Great Northwestern Telegraph Co.	Telegrams, February	1.14
6	The Daily News	Advertising, April	12.65
6	New York Staats Zeitung	do	15.75
6	Chicago Herald Co.	do	50.00
6	The Tribune Printing Co.	do	11.00
6	A. S. Abell Co.	do	19.50
6	The Globe Newspaper Co.	do	24.75
6	The K. C. Times Newspaper Co.	do	30.00
6	St. Louis Republic	do	40.00
6	New York Times Publishing Co.	do	47.50
6	J. Baumgarten & Son	Rubber stamps	3.00
6	People's Dispatch Co.	Freight charges, April	2.00
6	J. B. Bryan & Bro	Soap	8.25
6	Geo. Ryneal, jr.	Chamois skins	8.80
6	D. Haines	Hay	13.26
8	Lincoln B. Smith	Cab hire for April	13.50
9	Washington Gaslight Co.	Gas for May	79.75
10	The Journal Co.	Advertising, April	14.43
10	The Record Publishing Co.	do	46.20
12	Easton & Rupp	Stationery	25.10
12	Z. D. Gilman	Gum camphor	3.00
12	The Washington Post Co.	Advertising in April	18.27
12	Church & Stephenson	Lumber	9.00
12	do	do	9.60
12	C. Becker	Repairing harness, etc.	7.45
12	United States Electric Lighting Co.	Electric current for May	108.26
12	S. A. Johnson, collector	Custom charges, June	.75
13	U. M. Ferguson	Straw	14.52
16	The Press Publishing Co.	Advertising in April	57.75
16	Murray & Parker	Shoeing horses in May	23.75
20	United States Express Co.	Transportation, May	3.88
20	A. S. Abell Co.	Advertising in June	8.55
20	The Globe Newspaper Co.	do	9.50
20	New York Times Publishing Co.	do	19.00
21	Wm. Ballantyne & Sons	Steel erasers	18.27
22	Adams Express Co.	Transportation, May	1.35
22	do	do	3.50
23	Ernest Betz	Making iron tank	53.00
27	Bureau of Press Clippings	Press clippings for May	5.74
27	Wyckoff, Seamans & Benedict	Repairs on typewriter	13.26
27	H. H. C. Dunwoody	Traveling expenses, May 29 to June 19	6.00
28	J. N. Truax	Hay	16.91
29	N. Y. Times Publishing Co.	Proposals for chemicals supplies	15.00
30	Belt Railway Co.	Car tickets	41.50
Total fourth quarter.			3,038.41

*Expenditures Department of Agriculture for fiscal year ending June 30, 1893—Cont'd.*

## CONTINGENT EXPENSES—Continued.

Date.	Name.	Nature of payment.	Total.
<i>Supplemental.</i>			
1893.			
July 1	Wilmarth & Edmonton	Dusters, etc .....	\$17.35
1	Office Specialty Mfg. Co	Shannon covers, etc .....	23.40
3	The Times Publishing Co	Advertising in June .....	15.20
3	Laura Williams	Washing towels in June .....	25.00
5	Royce & Marean	Maintenance clock to June 30 .....	1.25
5	Washington Gaslight Co	Gas for June .....	66.75
6	The Globe Newspaper Co	Advertising in June .....	4.50
6	A. S. Abell Co	do .....	5.63
6	The Washington Post Co	do .....	10.50
7	Thaddeus Davids Co	Marking ink .....	1.00
7	Murray & Barker	Shoeing horses .....	23.75
7	The U. S. Electric Lighting Co	Electric light for June .....	105.00
7	do	do .....	5.61
7	Western Union Telegraph Co	Cablegram .....	1.71
19	John C. Parker	Indelible ribbons, etc .....	11.45
19	do	Paper .....	37.25
19	do	Stationery, etc .....	286.59
19	do	do .....	481.29
20	Robacher's Disinfectant Co	Disinfectant .....	15.00
20	Wm. E. Clark & Co	Snow shovels, etc .....	2.64
20	Geo. W. Knox Express	Freight and drayage May and June .....	3.66
20	The Chesapeake and Potomac Telephone Co.	Telephone rent April 1 to June 30 .....	106.25
20	Smithsonian Institution	Transportation of exchanges, 4th quarter .....	.75
20	Church and Stephenson	Lumber .....	13.72
20	Z. D. Gilman	Fly paper .....	1.70
20	L. H. Hopkins	Hardware .....	29.16
20	M. G. Copeland & Co	Hanging awnings, etc .....	44.80
21	The Record Publishing Co	Advertising June .....	13.60
21	The Boston Herald Co	do .....	4.50
24	Pennsylvania R. R. Co	Transportation, Dunwoody, May and June .....	13.00
24	Adams Express Co	Transportation in June .....	3.15
25	F. V. Coville	Traveling expenses in June .....	58.55
27	Jno. McDermott & Bro	Glass, etc .....	3.25
27	The Washington Post Co	Advertising in June .....	6.29
27	United States Express Co	Transportation in June .....	1.00
31	Easton & Rupp	Felt copy pads .....	4.30
31	G. T. Raub	Hay .....	30.64
Aug. 3	The Hygienic Ice Co	Ice, April, May, and June .....	113.49
7	Washington News Publishing Co.	Advertising in June .....	6.72
16	C. Schneider	Repairing safe, June .....	5.00
16	Wm. A. Gaskins	Feed in May and June .....	76.92
17	Pennsylvania R. R. Co	Transportation, Dunwoody, June .....	6.50
24	Woodward & Lothrop	China silk, etc .....	3.73
28	Harris & Shafer	Clocks and repairs to pitchers .....	13.75
Oct. 3	Bureau of Press Clippings	Clippings, April 1 to June 30, 1893 .....	17.30
6	Philadelphia & Reading R. R. Co	Transportation, Dunwoody, June, 1893 .....	7.68
13	C. Becker	Horse boot, etc .....	1.85
28	Postal Telegraph Cable Co	Cablegrams .....	5.27
	Total .....		1,737.40

## RECAPITULATION.

First quarter .....	\$4,234.61
Second quarter .....	6,265.26
Third quarter .....	7,048.89
Fourth quarter .....	3,048.41
Supplemental .....	1,737.40
Total .....	22,374.57

Expenditures Department of Agriculture for fiscal year ending June 30, 1893—Cont'd.

## BUREAU OF ANIMAL INDUSTRY.

Date.	Name.	Nature of payment.	Total.
1892.			
July 12	State Journal Co.	Daily State Journal, July 1, 1892, to Nov. 1, 1892.	\$4.15
12	Lea Brothers & Co.	Subscription to American Journal Medical Sciences, etc., July 1, 1892, to July 1, 1893.	7.50
18	D. Appleton & Co.	Subscription to N. Y. Medical Journal, July, 1892 to 1893.	5.00
18	Geo. S. Davis	Subscription to Index Medicus, July 18 2-93.	10.00
18	E. and H. Anthony & Co.	Subscription to Illustrated Bulletin, July 1892-93.	3.00
18	Sabiston & Murray	Subscription to American Veterinary Review, July 1892-93.	3.00
19	Bausch & Lomb Optical Co.	Knife for microtome	8.00
23	John McDermott & Bro.	Road wagon	250.00
23	Moses De La Bar	Slaughtered cattle	20.00
23	Anna Finn	do	20.00
25	Capital, North O Street and South Washington Rwy. Co.	Car tickets	12.50
31	D. E. Salmon <i>et al.</i>	Salaries for July	4,479.07
Aug. 1	H. Hammel	Slaughtered cattle	20.00
2	V. G. Fischer	Subscription to American Agriculturist, etc.	32.75
2	M. M. Buck & Co.	Lanterns, etc.	7.05
3	O. L. Boor <i>et al.</i>	Salaries for July	843.70
3	Julius Huelsen <i>et al.</i>	do	729.00
3	O. W. Green <i>et al.</i>	Labor for July	498.25
3	Edward Devoe <i>et al.</i>	Salaries for July	656.80
4	Edwin S. Huff <i>et al.</i>	do	592.30
4	Frederick H. Gage <i>et al.</i>	do	780.90
4	John Michels <i>et al.</i>	do	878.80
4	Davenport Fisher <i>et al.</i>	do	1,115.40
4	Ernest S. Dundas <i>et al.</i>	do	1,995.52
4	G. A. Johnson <i>et al.</i>	do	239.10
4	John Forbes <i>et al.</i>	do	357.10
4	W. B. Cutler <i>et al.</i>	do	461.40
4	S. W. McGrew <i>et al.</i>	do	786.30
4	H. L. Hewetson <i>et al.</i>	do	815.18
5	James Wilson <i>et al.</i>	do	1,329.92
5	D. R. Krehbiel <i>et al.</i>	do	1,582.40
5	Amelia Bartheis <i>et al.</i>	do	265.59
5	Norman R. Adams <i>et al.</i>	Labor for July	546.00
5	Albert Burger <i>et al.</i>	Salaries for July	2,631.78
5	Floy McEwen <i>et al.</i>	do	2,680.80
5	Mary E. Price <i>et al.</i>	do	262.60
5	James H. Hogan <i>et al.</i>	do	168.04
5	B. Westermann & Co.	Foreign publications	16.15
6	C. Becker	Saddle, bridle, etc.	48.25
6	Washington Gaslight Co.	Gas for July	18.75
6	F. H. Bernard <i>et al.</i>	Salaries for July	2,892.37
6	Geo. S. Baker <i>et al.</i>	do	2,897.12
6	H. J. Ruppert	Land rent, Benning's Road, July	41.66
8	Elmer E. Hoover <i>et al.</i>	Salaries for July	123.10
8	John W. Martin	do	136.00
8	James Treuteman <i>et al.</i>	do	388.60
8	Dighton Granger <i>et al.</i>	do	1,012.57
8	Alford H. Rose	Labor, July	39.00
8	do	Office expenses, July	13.15
8	N. E. Telephone and Telegraph Co.	Livery for July	45.00
8	Luther Holton	Telephone rent, July	10.00
8	Lewis L. Bullard	Salary and expenses, July	68.78
8	George H. Oliver	do	69.26
8	John Shannon	do	69.26
8	Eugene R. Hendley	do	70.46
8	John W. Hitchings	Salary for July	84.20
8	Thomas Coyle	Salary and expenses, July	92.86
8	William H. Way	do	99.67
9	James Stikeman	do	123.92
9	Chas. W. Petty	Office rent, New York City, July	45.83
9	James Russell	Salary and expenses, July	68.54
9	Joseph Jarvis	do	68.68
9	Hiram Jerome	do	86.78
9	Geo. Cornish	do	91.88
9	William Foley	do	93.70
9	James Flannery	do	94.00
9	Jos. P. McEnaney	do	94.26
9	Henry Brister	Salary for July	101.10
9	do	Salary and expenses, July 1-14	80.32
9		Salary and expenses, July 15-31	59.98

*Expenditures Department of Agriculture for fiscal year ending June 30, 1893—Cont'd.*

BUREAU OF ANIMAL INDUSTRY—Continued.

Date.	Name.	Nature of payment.	Total.
1892.			
Aug. 9	Henry S. Vanderhoff .....	Salary and expenses, July .....	\$145.63
9	W. H. Rose .....	Office expenses, July .....	13.25
9	do .....	Salary for July .....	200.00
9	J. H. Phelan .....	Expenses, July .....	9.25
9	Wood & Van Sant, G. A .....	Office rent, Newark, July .....	20.83
9	F. H. Spengeman .....	Office rent, Jersey City, July .....	50.00
9	George Fick .....	Storage, Jersey City, July .....	6.00
9	John Medole & Son .....	Stationery .....	56.05
9	James Cassey .....	Salary and expenses, July .....	90.95
9	Ira C. Kilburn .....	do .....	105.45
9	Melvin Doremus .....	do .....	105.45
9	Thos. Crozer .....	do .....	108.45
9	Richard Kay .....	do .....	157.05
9	W. W. Curry .....	do .....	162.90
9	H. W. Rowland .....	do .....	162.90
9	Werner Runge .....	do .....	165.85
9	W. H. Cooper .....	do .....	167.90
9	James A. Wabrath .....	do .....	213.50
9	J. W. Hawk .....	do .....	218.65
9	W. S. Devoe .....	do .....	296.70
9	W. H. Morris .....	Subscription to Swine Breeders' Journal .....	1.00
10	Alex Yearly & Son .....	Office rent, Baltimore, July .....	10.00
10	David Holland .....	Salary and expenses, July .....	82.00
10	Robert Fisher .....	do .....	82.96
10	James Boyd .....	do .....	83.04
10	James A. Cunningham .....	do .....	83.32
10	Isaac L. Ball .....	Salary for July .....	84.20
10	Frederick Gross .....	Salary and expenses, July .....	84.20
10	Charles F. Nesbit .....	do .....	98.00
10	A. W. Clement .....	do .....	174.61
10	Geo. C. Faville .....	Office expenses, July .....	2.85
10	do .....	Salary and expenses, July .....	290.10
10	Emily Lucas .....	Services as janitress, July .....	3.50
10	E. H. Flavin .....	Salary and expenses, July 1-7 .....	20.69
10	John W. S. Ortiz .....	Salary and expenses, July .....	89.05
10	John Mesick .....	do .....	89.52
10	William Taylor .....	do .....	89.52
10	Samuel Jarvis .....	do .....	90.32
10	Cornelius S. Vosburgh .....	do .....	90.72
10	Chester H. Bliss .....	do .....	91.08
10	Frank Hallenbeck .....	do .....	91.58
10	John H. Eadie .....	do .....	92.12
10	Charles E. Grogan .....	do .....	92.97
10	James Smith .....	do .....	95.82
10	J. Sumner Sargent .....	do .....	114.20
10	Benj. B. Mullen .....	do .....	116.67
10	Claude D. Morris .....	do .....	129.66
10	Henry B. Ambler .....	do .....	143.44
10	W. J. Watt .....	do .....	175.17
10	W. H. Pendry .....	do .....	181.57
10	Edwin W. Poole <i>et al</i> .....	Salaries for July .....	834.70
10	F. E. Parsons .....	Salary and expenses, July .....	248.74
10	Z. D. Gilman .....	Chemicals, etc .....	11.30
11	Lake Gas Co .....	Gas for July, Chicago .....	1.25
11	The Office Toilet Supply Co .....	Toilet supplies, Chicago, July .....	6.00
11	J. J. Evans .....	Iron pipe, etc .....	6.00
11	Lockwood & Strickland .....	Lumber .....	7.47
11	C. H. Hanson .....	Stencils, etc .....	8.05
11	Chicago Telephone Co .....	Telephone service, Chicago, July .....	10.42
11	Rand, McNally & Co .....	Stationery, etc .....	10.65
11	Paul Rieser .....	Repairing boxes, etc .....	14.15
11	A. H. Andrews & Co .....	Desk, etc .....	14.50
11	Chas. Truax Greene Co .....	Scales, chemicals, etc .....	16.82
11	William H. Bogart .....	Salary and expenses, July .....	122.88
11	Edward Morris .....	Office rent, Chicago, Ill .....	133.33
11	John B. Sine .....	Salary and expenses, July .....	146.10
11	A. D. Melvin .....	do .....	297.75
11	B. J. Downey & Son .....	Set of harness .....	55.00
13	Chas. E. Grazz <i>et al</i> .....	Salaries for July .....	1,177.39
13	Edwin W. Poole .....	Stencil plate, etc .....	1.65
13	Julius Huelsen .....	Office expenses, July .....	5.18
13	Drake Brothers .....	Water cooler, etc .....	5.65
13	Henry Zulauf .....	Awnings .....	20.00
13	H. A. Heath .....	Salary for July .....	134.80
13	Samuel W. Campbell .....	Salary and expenses, July .....	172.21
13	Bay State Clean Towel Furnishing Co. .....	Towel supply, July .....	7.50
13	Annie L. Richards .....	Office rent, Boston, July .....	40.00
13	Wilson F. Braden .....	Salary, July .....	84.20

Expenditures Department of Agriculture for fiscal year ending June 30, 1893—Cont'd.

## BUREAU OF ANIMAL INDUSTRY—Continued.

Date.	Name.	Nature of payment.	Total.
1892.			
Aug. 13	Robert W. Ardary	Salary, July	\$117.90
13	A. W. Fulkerson	Towel supply, July	8.00
13	C. J. Baker	Awnings	42.80
13	F. O. Walcker	Nippers, tacks, etc.	47.75
13	George Sinclair	Salary, July	60.60
13	The New York and New Jersey Telephone Co.	Rent, etc., Jersey City, July	18.00
13	W. S. Devoe	Expenses, July	46.25
13	J. N. Wittpenn	Salary and expenses, July	148.15
13	Theodore De Clyne	do	148.15
13	George Carter	Salary, July 15-31	55.43
13	do	Salary, July 1-14	38.04
13	William B. E. Miller	Office expenses, Philadelphia, July	2.00
13	do	Salary and expenses for July	205.85
16	R. W. Hickman	do	287.61
16	W. A. Willard	do	123.57
16	J. H. Ferster	do	120.67
16	John Broderick	Office rent, New York, July	16.00
16	Sturges, Wescott & Harold Co.	Labeling compound	2.50
16	Alexanderina Dick	Services as janitress, July	5.00
16	Perkins, Goodwin & Co.	Bleaching powder	27.19
16	Washburn Bros. Co.	Lime	55.00
16	Henry W. Eliot	Salary and expenses, July	136.77
16	C. A. Welcher	Chemicals	25.10
16	do	Varnish	2.50
16	Packers' National Bank	Rent of rooms	35.00
16	Dewey & Stone Furniture Co.	Tables, etc.	24.70
16	J. A. Doe	Expenses in July	.65
16	J. M. Wardlaw	Salary for July	134.80
16	Luther Poland	do	101.10
16	Thomas W. Ashe	Salary and expenses, July	127.50
16	John Forbes	Drayage	1.00
16	A. R. Kennedy	Salary for July	117.90
16	Chas. A. Wilcox	do	101.10
16	W. S. Glynn	Hauling seals, etc.	4.00
16	Hess & Pfaelzer	Feed	14.01
16	George H. Graham	Salary for July	134.80
17	W. H. Wray	Salary and expenses, July	476.64
17	J. F. Ryder	do	265.85
17	O. P. Vandenberg	do	89.52
17	Guy A. Adams	do	71.62
17	David Parker	do	147.90
17	James Welch	do	87.92
17	John N. Lester	do	81.42
17	Ryland M. Scotford	Canceling wheel	8.50
17	Bonniwell, Newman & Calvin	Varnish, brushes, etc.	20.40
17	R. Sears	Salary and expenses, July	135.65
17	do	Office expenses, July	.95
17	Charles H. Perry	Salary and expenses, July	171.05
17	Mo. Conklin	do	89.45
17	W. S. Devoe	Office expenses, July	9.80
17	Knickerbocker	Ice	1.69
17	Wm. B. Werutz	Salary and expenses, July	159.90
17	A. D. Melvin	Office expenses, July	40.79
17	Adams Express Co.	Expressage on tags	40.95
17	E. A. Clapp	Office rent, East St. Louis, July	10.00
17	E. C. Matheny	Salary for July	101.10
17	James Irwin	do	153.15
17	Edward T. Jenkins	Office rent, Brooklyn, July	45.00
17	J. B. C. Phillips	Stable rent, Brooklyn, July	5.00
17	Ed R. Allen	Office expenses, July	2.45
17	do	Salary and expenses, July	136.65
17	Joseph Hawkins	Salary, July	117.90
17	G. A. Johnson	do	3.35
17	O. L. Boor	Rent, Kansas City, Kans., July	18.13
17	G. W. Tourtellot	Labor	50.00
17	Charlotte Brandt	Toilet supplies	8.00
17	Troy Laundry Co.	Subscription, Western Resources	4.50
17	H. S. Reed	Services and expenses, July 17	2.00
17	Charles Cowie	Salary for July	5.66
17	Dr. N. Jewett	do	101.10
17	D. R. Alton	Salary and expenses, July	101.10
17	R. S. Montgomery	Salary for July	117.40
17	Edward Story	do	134.80
17	T. L. Armstrong	Salary and expenses, July	151.60
17	Samuel H. Pierce	do	164.80
17	W. Judson Smith	do	260.00
17	D. Cumming	Services, July 19, 20, 21	15.00
17	W. B. Moses & Sons	Bookcase, repairs, etc.	37.00

Expenditures Department of Agriculture for fiscal year ending June 30, 1893—Cont'd.

## BUREAU OF ANIMAL INDUSTRY—Continued.

Date.	Name.	Nature of payment.	Total.
1892.			
Aug. 20	B. A. Pierce	Salary and expenses, July	\$135.80
20	Chas. O. Brockway	Hog pinchers	5.00
20	Watson Pickrell	Salary and expenses, July	295.30
20	Howard Rhoads	do	150.80
20	Albert Dean	Salary for July	168.50
20	William D. Jorden	Salary and expenses, July	159.35
20	B. L. Stine	do	119.65
20	D. M. Ward	Salary for July	117.90
20	Joseph Bruser	do	117.90
20	Perry Hodgden	do	101.10
20	J. C. Lambdin	do	101.10
20	W. S. Wade	do	101.10
20	City Towel and Linen Co.	Towels, July	2.25
20	D. H. Huston	Scissors, etc.	5.35
20	L. J. Carpenter	Hire horse and buggy, July	40.00
20	J. T. Claris	Salary and expenses, July	201.42
20	do	Office rent, Buffalo, N. Y., July	10.00
20	J. A. Dodge	Salary and expenses, July	151.14
20	Henry B. Ambler	do	157.68
20	W. R. Whittingham	Stock	50.00
20	Noah Draper	Hay	13.92
20	United States Express Co.	Transportation	3.35
23	F. L. Russell	Services and expenses, July	97.05
23	Anderson M. Hunter	Salary for July	117.90
23	John B. Veleair	One head of cattle	12.00
23	Henry Gaither	Repairing cattle tagging	9.98
23	Frank A. Shipley	Leather boxes and belts	7.50
23	Gaylord H. Brown	Salary	3.26
23	James Wilson	Drayage	1.00
24	S. Stewart	Salary and expenses, July	156.65
24	Chas. E. Collins	do	141.45
24	M. L. Potter	Gasoline	5.85
25	A. R. Robertson	Towels, etc., July, Brooklyn, N. Y.	3.50
25	do	Salary and expenses, July	264.07
25	Charles B. Michener	Expenses in August	56.95
25	D. E. Salmon	Expenses in July and August, Chicago	40.15
25	do	Expenses in August	24.55
26	The Journal of Comparative Medical and Veterinary Archives	Subscription to June 30, 1893	3.00
27	Frank H. Miller	Salary and expenses, July	26.25
27	Doane Brothers	Lumber	13.20
30	Joseph Nash	Cattle	64.50
31	D. E. Salmon <i>et al.</i>	Salaries for August	4,555.30
31	G. W. Ward	Salary and expenses, July	157.35
31	John Minto	Salary, July	117.90
Sept. 1	E. A. Schweinitz	Traveling expenses, July	55.73
1	Allen C. Wood	Painting and varnishing	16.00
2	H. J. Ruppert	Land rent, Benning's Road, August	41.66
5	Chicago and Northwestern Rwy. Co	Transportation in July	3.92
5	Ohio and Mississippi Rwy. Co	do	7.80
5	do	do	7.80
5	B. Westerman & Co.	Foreign publications	18.13
5	Frederick H. Gage <i>et al.</i>	Salaries for August	580.90
5	Julius Huelson <i>et al.</i>	do	755.00
5	George Carter <i>et al.</i>	do	785.90
5	Edwin W. Pool <i>et al.</i>	do	834.70
5	John Michels <i>et al.</i>	do	878.80
5	O. W. Green <i>et al.</i>	do	498.25
5	Edward Devoe <i>et al.</i>	do	656.80
5	Geo. Ryneal, jr.	Glass	3.85
5	Washington Gaslight Co.	Gas for August	12.75
5	Wyckoff, Seamans & Benedict	Remodeling typewriter	35.00
6	J. Baumgarten & Son	Badges	117.00
6	W. H. Rose	Salary for August	210.60
6	do	Towels, etc.	3.00
6	Henry Brister	Salary and expenses for August	151.94
6	Henry S. Vanderhoff	do	148.44
6	Jas. P. McEnaney	Salary for August	101.10
6	William Foley	Salary and expenses for August	96.70
6	James Flannery	do	95.38
6	Geo. Cornish	do	93.62
6	Hiram Jerome	do	92.64
6	Joseph Jarvis	do	90.08
6	James Russell	do	89.08
6	James Stikeman	Office rent, August, New York City	45.83
6	The Metropolitan Telephone and Telegraph Co.	Rent of telephone, etc.	23.35

Expenditures Department of Agriculture for fiscal year ending June 30, 1893—Cont'd.

## BUREAU OF ANIMAL INDUSTRY—Continued.

Date.	Name.	Nature of payment.	Total.
1892.			
Sept. 6	Alvord H. Rose	Expenses in August	\$45.00
6	do	Towels, etc., Boston, Mass.	3.00
6	William H. Way	Salary and expenses, August	122.72
6	Thomas Coyle	Salary for August	99.68
6	Eugene R. Hendling	do	84.20
6	John Shannon	Salary and expenses, August	67.82
6	George H. Oliver	do	66.86
6	Lewil D. Bullard	do	66.14
6	Luther Holton	do	63.98
6	New England Telephone and Telegraph Co.	Rent of telephone, August	10.00
6	Francis Doane & Co	Chamois skin, etc.	5.25
6	Isaac L. Ball	Salary for August	84.20
6	Robert Fisher	Salary and expenses, August	82.96
6	James A. Cunningham	do	82.96
6	James Boyd	do	82.96
6	Frederick Gross	do	83.40
6	David Holland	do	82.00
6	Alex. Yearley & Son	Office rent, August, Baltimore	10.00
7	Davenport Fisher <i>et al</i>	Salaries for August	1,117.40
7	H. L. Hewetson <i>et al</i>	do	1,178.40
7	James Wilson <i>et al</i>	do	1,293.70
7	Dighton Granger <i>et al</i>	do	1,010.27
7	Charles W. Stiles <i>et al</i>	Salary and expenses, August	54.23
8	Norman R. Adams <i>et al</i>	Salaries for August	742.00
8	Albert Burger <i>et al</i>	do	2,567.75
8	F. H. Bernhard <i>et al</i>	do	2,719.71
9	Lake Gas Co.	Gas for August, Chicago	1.75
9	Geo. S. Baker <i>et al</i>	Salaries for August, Chicago	2,524.40
9	John W. Martin <i>et al</i>	do	120.00
9	James H. Logan <i>et al</i>	do	390.60
9	Elmer E. Hoover <i>et al</i>	do	131.10
9	Mary E. Price <i>et al</i>	do	262.60
9	G. A. Johnson <i>et al</i>	do	239.10
9	Amelia Barthels <i>et al</i>	do	235.50
9	James Treneman <i>et al</i>	do	378.00
9	W. P. Cutler <i>et al</i>	do	461.40
9	John Forbes <i>et al</i>	do	638.30
9	Wm. Somerville, Jr., <i>et al</i>	do	738.28
9	S. W. McGrew <i>et al</i>	do	804.30
10	O. L. Boor <i>et al</i>	do	888.36
10	D. R. Krehbiel <i>et al</i>	do	1,559.62
10	Floy McEwen <i>et al</i>	do	2,740.65
10	A. K. Robertson	Office expenses, August, Brooklyn	3.85
10	J. B. C. Phillips	Rent of stable, August, Brooklyn	5.00
10	Chas. A. Farshee	Binding reports, etc.	5.70
10	Edward T. Jenkins	Office rent, August	45.00
10	Chester H. Bliss	Salary and expenses for August	86.14
10	Cornelius Vosburgh	do	87.82
10	William J. Taylor	do	87.92
10	John Mesick	do	89.72
10	John W. S. Ortiz	do	90.77
10	Samuel Jarvis	do	91.97
10	John H. Eadie	do	92.42
10	Charles E. Grogan	do	93.07
10	Frank Hallenbeck	do	93.08
10	James Smith	do	96.62
10	J. Sumner Sargent	do	114.20
10	Claude D. Morris	do	136.49
10	W. J. Watt	Services and expenses, August	175.27
10	F. L. Kilborne	Expenses, August	29.48
12	J. H. Brierly <i>et al</i>	Salaries for August	1,909.75
12	Emily Lucas	Services for August	3.50
12	A. W. Clement	Salary and expenses, August	176.00
12	Geo. C. Faville	do	262.80
12	George Flick	Rent storage rooms, August	6.00
12	Wood & Van Zant, G. A	Rent of room, August	20.83
12	John Medole & Son	Inspectors' reports, etc.	30.05
12	F. H. Spengeman	Office rent, August	50.00
12	Mo. Conklin	Salary and expenses, August	89.85
12	James Cassey	do	91.47
12	Melvin Doremus	do	120.45
12	Thos. Grozer	do	120.45
12	Ira C. Kilburn	do	123.45
12	Richard Kay	do	157.25
12	W. W. Curry	do	162.90
12	H. W. Rowland	do	162.90
12	J. N. Wittpenn	do	163.15
12	Henry W. Eliot	do	163.15

*Expenditures Department of Agriculture for fiscal year ending June 30, 1893—Cont'd.*

BUREAU OF ANIMAL INDUSTRY—Continued.

Date.	Name.	Nature of payment.	Total.
1892.			
Sept. 12	Theo. De Clyne	Salary and expenses, August	\$163.15
12	Werner Runge	do	166.45
12	W. H. Cooper	do	171.63
12	James A. Walrath	do	213.50
12	J. W. Hawk	do	217.60
12	American Railway Supply Co.	Cattle tags	18.75
13	John F. Talbert	One horse, experimental purposes	10.00
13	Catharine Potee	Hire of horses, August	20.00
13	Alfred Burnett	Labor, 27 days, August	40.50
13	R. Sears	Salary in August	134.80
13	Chas. W. Petty	Services and expenses, August	73.01
13	John W. Scott <i>et al.</i>	Salaries, August	1,136.13
13	The Kolzenberg Co.	Varnish brushes, etc.	5.40
13	Mrs. J. R. O'Connor	Rent of stable	10.00
13	Chicago Telephone Co.	Telephone service, August	10.42
13	C. H. Crosby	Feed	26.25
13	William H. Bogart	Salary and expenses, August	122.82
13	A. D. Melvin	Office expenses, August	60.90
13	do	Services and expenses, August	309.25
14	Wm. B. Werntz	Salary and expenses, August	151.27
14	Wm. B. E. Miller	Office expenses, August	3.00
14	do	Salary and expenses, August	205.85
14	B. A. Pierce	do	136.30
14	Samuel H. Pierce	do	164.80
14	Samuel W. Campbell	do	167.72
14	Wilson F. Braden	Salary for August	84.20
14	Robert W. Ardary	do	117.90
14	Alexandrina Dick	Services, August	5.00
14	John Broderick	Office rent, August	16.00
14	J. H. Ferster	Salary and expenses, August	122.47
14	R. W. Hickman	do	294.12
14	W. A. Willard	do	124.07
14	Luther Poland	Salary for August	101.10
14	J. M. Wardlaw	do	134.80
14	E. C. Matheny	do	101.10
14	Thomas W. Oshel	do	101.10
14	Benj. B. Mullen	Salary and expenses, August	121.80
14	W. H. Pendry	do	197.47
14	A. K. Robertson	do	274.13
14	Guy A. Adams	do	72.62
14	John N. Lester	do	82.82
14	James Welch	do	88.32
14	C. P. Vandenberg	do	89.72
14	David Parker	do	147.90
14	J. T. Cunniff	Salary, Aug. 18 to 31	27.39
14	Ed. R. Allen	Office expenses, August	3.45
14	do	Salary and expenses, August	137.05
14	Beattie & Son	Stencil, etc.	3.35
14	Strong, Cobb & Co.	Shellac, etc.	3.65
14	H. G. Pyle	Salary and expenses for August	181.54
14	Bausch & Lomb Optical Co.	Repairing microscope	.60
14	G. A. Johnson	Drayage	1.00
14	Julius Huelson	Office expenses, August	2.45
14	Troy Laundry Co.	Toilet supplies	4.50
14	Charlotte Brandt	Cleaning boxes	8.00
14	O. L. Boor	Pens, etc.	10.85
14	Charles Cowie	Services and expenses, 4 days in August	21.06
14	M. S. Young	Services, Aug. 12 to 26	40.00
14	George Sinclair	Salary for August	60.60
14	D. Cumming	Services for 18 days, August	90.00
14	Charles A. Wilcox	Salary in August	101.10
14	De N. Jewett	do	101.10
14	D. R. Alton	do	101.10
14	A. R. Kennedy	do	117.90
14	Edward Story	do	134.80
14	H. A. Heath	do	134.80
14	S. Stewart	Salary and expenses, August	154.30
14	J. F. Ryder	do	281.60
14	W. H. Wray	do	441.48
14	Rand, McNally & Co.	Stationery, etc.	13.95
14	Hynes Bros.	Screens	17.50
14	Oxley & Wilson Manufacturing Co.	Labeling compound	25.50
14	Lizzie G. McGlasson	Salary for August	50.50
14	John B. Sine	Salary and expenses, August	146.10
14	W. S. Wade	Salary for August	101.10
14	Perry Hodgen	do	101.10
14	J. C. Lambdin	do	101.10
14	Joseph Bruser	do	117.90

Expenditures Department of Agriculture for fiscal year ending June 30, 1893—Cont'd.

## BUREAU OF ANIMAL INDUSTRY—Continued.

Date.	Name.	Nature of payment.	Total.
1892.			
Sept. 14	Anderson M. Hunter	Salary for August	\$117.90
14	D. M. Ward	do	117.90
14	Albert Dean	do	168.50
14	The New York and New Jersey Telephone Co.	Telephone rent, August, Jersey City	19.35
14	E. Wohlgemuth	Slaughter of cattle	20.00
14	Washburn Brothers Co.	Lime	92.00
14	B. S. Watson	Salary and expenses, August	103.85
14	W. S. Devoe	Office expenses for August	6.10
14	do	Miscellaneous expenses for August	51.20
14	do	Salary for August	308.30
14	W. B. Morton	Ice for July	2.20
14	John Warrack	Hauling	2.00
14	D. Cameron	Paste	3.00
14	J. A. Doe	Ice	2.25
14	do	Electricity, August	3.00
14	A. H. Morroy	Repairing, etc.	5.95
14	Festner Printing Co.	Blank books	9.00
14	D. H. Huston	Hardware, etc.	18.75
14	C. A. Melcher	Varnish, etc.	30.80
14	L. J. Carpenter	Hire of horse and buggy, August	40.00
14	Packers' National Bank	Rent of rooms, August	42.00
14	George H. Graham	Salary for August	134.80
14	George C. Faville	Office expenses, August	3.75
14	Annie L. Richards, Admx.	Office rent, August, Boston	40.00
14	John W. Hitchings	Salary and expenses, August	88.54
15	The United States Electric Lighting Co.	Electricity, July	24.00
15	Church & Stephenson	Lumber	14.44
15	Geo. W. Talbert	Cabbage	11.52
15	do	do	18.20
15	Pennsylvania R. R. Co.	Transportation	49.00
15	N. H. Paaren	Salary and expenses, August	250.05
15	Victor A. Nørgaard	do	148.05
15	James E. Drom	do	131.15
15	J. T. Claris	do	213.44
15	do	Office rent, Buffalo, N. Y.	10.00
15	Thomas McGrath	Slaughtered cattle	15.00
15	American Railway Supply Co.	Tags	75.00
15	Charles E. Gragg	Salary and expenses, August	136.15
16	Knickerbocker Ice Co.	Ice, August	1.76
16	R. S. Montgomery	Salary and expenses, August	116.38
16	Joseph Hawkins	Salary for August	117.90
16	Edward Morris	Office rent, Chicago, August	133.33
16	F. E. Parsons	Salary and expenses, August	207.77
16	Henry B. Ambler	do	207.85
16	Watson Pickrell	do	377.97
16	Adams Express Co.	Transportation, July	19.50
17	Photo-Engraving Co.	Plates, etc.	12.05
17	E. Ellis Williams	Cattle ticks	22.00
17	S. A. Johnson	One case scientific apparatus	15.80
17	David Piferling	Slaughtered cattle	115.00
19	Geo. W. Knox Express	Freight	.70
19	The Oxley & Wilson Manufacturing Co.	Labeling compound	2.50
19	Frederick Printing and Stationery Co.	Memorandum books, etc.	3.60
19	L. A. Waters	Paste	4.00
19	Spencer & Smith	Microscope	12.00
19	Charles F. Nesbit	Salary and expenses, August	122.55
19	J. H. Phelan	do	114.45
19	Charles H. Perry	Salary for August	134.80
19	Office Toilet Supply Co.	Toilet supplies, August	6.00
19	Wm. Boss	Hay	7.04
19	Julius Heineman	Fitting compressors, etc.	125.25
19	Alembert W. Brayton <i>et al.</i>	Salaries for August	174.98
21	Theobald Smith	Sundry expenses in laboratory	2.21
22	John A. Bell	Services and expenses, 4 days in August	38.72
22	Millie Martin	Salary for August	50.50
22	T. L. Armstrong	Salary and expenses for August	153.55
22	F. L. Russell	do	252.17
23	B. L. Stine	do	180.35
27	A. E. Foote	Book	3.24
28	Davenport Fisher	Office expenses, August	1.20
28	H. G. Pyle	do	3.46
28	Liepsner & Mathews	Stamps and repairs	4.25
28	Bay State Clean Towel Furnishing Co.	Towel supply, August	6.00
28	Samuel W. Johnson	Slaughtered cattle	10.00

*Expenditures Department of Agriculture for fiscal year ending June 30, 1893—Cont'd.*

BUREAU OF ANIMAL INDUSTRY—Continued.

Date.	Name.	Nature of payment.	Total.
1892.			
Sept. 28	Wm. Somerville, jr.	Office expenses, August	\$11.19
28	Geo. B. Richards	Bill-poster tacks	12.50
28	The Metropolitan Telephone and Telegraph Co.	Telephone rent, New York City, August	22.10
28	Mayer Goldsmith	Slaughtered cattle	75.00
28	Chas. E. Collins	Salary and expenses, August	144.20
28	Howard Rhoads	do	175.85
28	William D. Jorden	do	233.38
28	Z. D. Gilman	Compressors and boxes	18.50
28	W. M. Galt & Co.	Feed, August	99.00
30	W. Judson Smith	Salary for August	270.00
30	John Minto	do	117.90
30	Frank H. Miller	Salary and expenses, August	110.00
30	R. R. Day	Stove, etc.	20.80
30	E. A. Clapp	Office rent, St. Louis, August	10.00
30	United States Express Co.	Transportation	16.55
30	Charles Truax Greene & Co.	Chemicals, etc.	107.87
30	G. W. Tourtellot	Office rent, Kansas City, August	50.00
30	Robert Kiehl	Antique chairs	7.50
30	Charles E. Gragg	Office expenses, August	1.50
30	F. O. Walcker	Brooms, tacks, etc.	24.80
30	Chicago and Northwestern Co.	Transportation	8.91
30	F. L. Kilborne	Traveling expenses	42.70
30	D. E. Salmon	do	20.25
30	D. E. Salmon <i>et al.</i>	Salaries for September	4,325.28
30	Wm. S. Canatsey	Salary, Sept. 12 to 30, 1892	37.17
	First quarter—salaries and expenses		113,493.73
	First quarter—swine plague		1,459.50
	First quarter—rent of laboratory.		200.00
	Total first quarter		115,153.23
Oct. 3	J. A. Dodge	Salary and expenses, August	147.95
3	G. W. Ward	do	178.40
3	Adams Express Co.	Transportation, August	27.10
3	Geo. W. Knox Express	Freight charges, August	2.77
5	B. Westermann & Co.	Foreign publications	37.05
6	Geo. C. Faville	Office expenses, September	2.04
6	Emily Lucas	Services as janitress, September	3.50
6	Alex. Yearley & Son	Office rent, Baltimore, September	10.00
6	David Hoiland	Salary and expenses, September	79.40
6	James Boyd	do	80.30
6	James A. Cunningham	do	80.30
6	Robert Fisher	do	80.30
6	Isaac L. Ball	Salary for September	81.60
6	Frederick Gross	Salary and expenses, September	81.50
6	Edward Devoe <i>et al.</i>	Salary for September	636.40
6	Julius Huelsen <i>et al.</i>	do	714.00
6	Norman R. Adams <i>et al.</i>	do	762.00
6	George Carter <i>et al.</i>	do	830.70
7	D. R. Krehbiel <i>et al.</i>	do	1,584.20
7	O. W. Green <i>et al.</i>	do	482.50
7	Albert Burger <i>et al.</i>	do	2,475.70
7	Geo. S. Baker <i>et al.</i>	do	2,491.28
7	F. H. Bernard <i>et al.</i>	do	2,712.24
7	Ellen T. Keane	Rent, Geiers Woods, July 1 to Sept. 30	75.00
7	H. J. Ruppert	Land rent, September	41.66
7	Washington Gaslight Co.	Gas for September	13.50
8	John W. Martin <i>et al.</i>	Labor, September	96.00
8	Dighton Granger <i>et al.</i>	Salaries, September	1,037.76
8	George C. Faville	Salary and expenses, September	246.60
8	Thomas McDermott	Salary and expenses, Sept. 16 to 30	32.85
8	Charles W. Petty	Salary and expenses, September	67.47
8	James Russell	do	84.32
8	Joseph Jarvis	do	84.32
8	George Cornish	do	83.34
8	Hiram Jerome	do	89.68
8	James Flannery	do	91.88
8	William Foley	do	92.90
8	Jos. P. McEnaney	Salary for September	97.80
8	Henry S. Vanderhoff	Salary and expenses, September	144.13
8	Henry Brister	do	149.43
8	William J. Watt	do	159.46
8	W. H. Rose	Office expenses, September	8.00
8	do	Salary for September	203.80
8	Julius Huelsen	Office expenses, September	2.45

## EXPENDITURES IN DEPARTMENT OF AGRICULTURE.

67

Expenditures Department of Agriculture for fiscal year ending June 30, 1893—Cont'd.

## BUREAU OF ANIMAL INDUSTRY—Continued.

Date.	Name.	Nature of payment.	Total.
1892.			
Oct. 8	Charles Hass.	Slaughtered cattle.	\$25.00
8	Meyer Brothers Drug Co.	Varnish, etc.	39.04
8	D. R. Alton.	Salary for September.	97.80
8	Amelia Barthels <i>et al.</i>	Salaries for September.	343.00
8	James H. Logan <i>et al.</i>	do.	378.80
8	W. P. Cutler <i>et al.</i>	do.	447.20
8	John Michels <i>et al.</i>	do.	834.38
8	H. G. Pyle <i>et al.</i>	do.	924.80
8	Davenport Fisher <i>et al.</i>	do.	1,115.50
8	H. L. Hewetson <i>et al.</i>	do.	1,143.20
10	C. J. Sihler <i>et al.</i>	do.	1,795.67
10	Lake Gas Co.	Gas for September, Chicago.	4.50
10	Chesapeake and Potomac Telephone Co.	Telephone rent, July 1 to Sept. 30.	84.73
10	Capitol, North O Street and South Washington Rwy. Co.	Car tickets.	12.50
10	Bausch & Lomb Optical Co.	Eye-piece, etc.	17.25
11	G. A. Johnson <i>et al.</i>	Salaries for September.	231.80
11	Mary E. Price <i>et al.</i>	do.	254.80
11	James Treneman <i>et al.</i>	do.	351.60
11	Frederick H. Gage <i>et al.</i>	do.	571.70
11	John Forbes <i>et al.</i>	do.	664.40
11	S. W. McGrew <i>et al.</i>	do.	757.60
11	O. L. Boor <i>et al.</i>	do.	796.60
11	Wm. Somerville, Jr., <i>et al.</i>	do.	986.91
11	James Wilson <i>et al.</i>	do.	1,278.60
11	Floy McEwen <i>et al.</i>	do.	2,709.24
11	Charles A. Forsliew.	Permit pads.	3.50
11	J. B. C. Phillips	Storage, Brooklyn, September.	5.00
11	The New York and New Jersey Telephone Co.	Telephone rent, July 1 to Sept. 30, Brooklyn.	40.35
11	Edward T. Jenkins.	Office rent, September, Brooklyn.	45.00
11	John Mesick.	Salary and expenses, September.	86.92
11	Samuel Jarvis.	do.	87.57
11	Corneilius S. Vosburgh.	do.	87.92
11	Chester H. Bliss.	do.	88.48
11	John W. S. Ortiz.	do.	88.62
11	John H. Eadie.	do.	89.52
11	Frank Hallenbeck.	do.	89.88
11	Charles E. Grogan.	do.	90.62
11	James Smith.	do.	93.67
11	J. Sumner Sargent.	do.	111.60
11	Benjamin B. Mullen.	do.	115.07
11	Claude D. Morris.	do.	127.58
11	Charles H. Perry.	do.	133.52
11	W. H. Pendry.	do.	188.82
11	American Ice Co.	Coal.	40.71
11	Alembert W. Brayton <i>et al.</i>	Salaries for September.	537.80
11	John W. Scott <i>et al.</i>	do.	1,043.21
11	Wm. B. Wernzt.	Salary and expenses, September.	153.57
12	John M. Williams.	Hauling.	.25
12	The Bell Telephone Co. of Philadelphia.	Telephone rent, July 1 to Sept. 30.	30.00
13	James Strikeman.	Office rent, New York City, September.	45.83
13	Chesapeake and Potomac Telephone Co.	Telephone rent, July 1 to Sept. 30, Baltimore.	25.00
13	Charles F. Nesbit.	Salary and expenses, September.	110.50
13	A. W. Clement.	do.	173.25
13	The Kotzenberg Co.	Chemicals, etc.	2.30
13	M. L. Potter.	Gasoline.	6.50
13	Mitchell Brothers.	Coal and wood.	8.25
13	John Trapp.	Hay.	9.50
13	Chicago Telephone Co.	Telephone rent, Chicago, September.	10.42
13	C. H. Crosby.	Feed.	22.30
13	Wm. Knecken & Co.	Coal.	81.00
13	William H. Bogart.	Salary and expenses, September.	119.62
13	Edward Morris.	Office rent, Chicago, September.	133.33
13	James E. Drom.	Salary and expenses, September.	140.45
13	John B. Sine.	do.	142.80
13	Victor A. Nørgaard.	do.	153.65
13	A. D. Melvin.	Office expenses, September.	97.92
13	do.	Salary and expenses, September.	303.25
13	The Bay State Clean Towel Furnishing Co.	Towel supply, September.	6.00
13	New England Telephone and Telegraph Co.	Telephone rent, Boston, September.	10.00
13	Annie L. Richards, administratrix.	Office rent, Boston, September.	40.00
13	Lervil L. Bullard.	Salary and expenses, September.	62.66

Expenditures Department of Agriculture for fiscal year ending June 30, 1893—Cont'd.

## BUREAU OF ANIMAL INDUSTRY—Continued.

Date.	Name.	Nature of payment.	Total.
1892.			
Oct. 13	John Shannon	Salary and expenses, September	\$62.90
13	Luther Holton	do	63.14
13	George H. Oliver	do	63.38
13	Eugene R. Hendley	Salary for September	81.60
13	John W. Hitchings	Salary and expenses, September	87.14
13	Thomas Coyle	do	99.10
13	William H. Way	do	118.78
13	Alvord H. Rose	Office expenses, September	3.00
13	do	Use of horse and carriage, September	45.00
13	Charles Truax Greene & Co.	Potash, etc.	391.33
13	Wilson F. Braden	Salary for September	81.60
13	Robt. W. Ardary	Car fare, etc., July	1.90
13	do	Salary for September	114.20
13	Samuel W. Campbell	Salary and expenses, September	143.31
13	Samuel H. Pterce	do	160.40
13	B. A. Pierce	do	175.40
13	W. A. Willard	do	120.17
13	J. H. Ferster	do	116.82
13	R. W. Hickman	do	208.02
13	John N. Lester	do	77.02
13	O. P. Vandenberg	do	86.12
13	James Welch	do	86.12
13	David Parker	do	144.20
13	Elmer E. Hoover <i>et al.</i>	Salaries, September	132.57
13	George Fick	Storage, Jersey City, September	6.00
13	Wood & Van Sant, G. A.	Office rent, Newark, September	20.83
13	The New York and New Jersey Telephone Co.	Telephone rent, Brooklyn, September	24.40
13	John Medole & Son	Stationery	32.08
13	F. H. Spengeman	Office rent, Jersey City, September	50.00
13	James Cassey	Salary and expenses, September	88.35
13	B. S. Watson	do	115.05
13	Melvin Doremus	do	117.85
13	Ira C. Kilburn	do	119.15
13	J. H. Phelan	do	126.85
13	Thos. Crozer	do	128.80
13	Richard Kay	do	152.25
13	W. W. Curry	do	159.20
13	H. W. Rowland	do	159.20
13	J. N. Wittpenn	do	159.45
13	Theo. De Clyne	do	159.45
13	Werner Runge	do	162.15
13	Henry W. Eliot	do	170.40
13	W. H. Cooper	do	203.93
13	James A. Walrath	do	208.00
13	J. W. Hawk	do	230.20
13	W. S. Devoe	Office expenses, September	4.95
13	do	Miscellaneous expenses, September	81.20
13	do	Salary and expenses, September	318.06
14	M. L. Young	Salary for September	50.00
14	D. Cumming	do	60.00
14	J. T. Davis	do	97.80
14	Chas. A. Witcox	do	97.80
14	De N. Jewett	do	97.80
14	Joseph Hawkins	do	114.20
14	John S. Meyer	do	114.20
14	A. R. Kennedy	do	114.20
14	H. A. Heath	do	130.40
14	R. Sears	do	130.40
14	George A. Graham	do	130.40
14	Edward Story	do	130.40
14	Henry B. Ambler	Salary and expenses, September	170.45
14	T. L. Armstrong	do	191.80
14	Davenport Fisher	Office expenses, September	2.25
14	Troy Laundry Co.	Toilet supplies, September	4.50
14	E. A. Clapp	Office rent, East St. Louis, September	10.00
14	E. C. Matheny	Salary for September	97.80
14	James Irwin	Salary and expenses, August	151.05
14	do	Salary and expenses, September	145.80
14	Charlotte Brandt	Cleaning boxes, September	4.00
14	S. Stewart	Salary for September	146.80
14	J. Y. Rode	Stationery	5.80
14	A. C. Fulkerston	Towel supply, August	8.52
14	do	Towel supply, September	8.52
14	G. W. Tourtellot	Office rent, Kansas City, September	50.00
14	George Sinclair	Salary for September	58.80
14	Charles E. Gragg	Salary and expenses, September	131.65
14	Ed. R. Allen	Office expenses, September	1.80
14	do	Salary and expenses, September	132.15

Expenditures Department of Agriculture for fiscal year ending June 30, 1893—Cont'd.

## BUREAU OF ANIMAL INDUSTRY—Continued.

Date.	Name.	Nature of payment.	Total.
1892.			
Oct. 14	Goodyear Rubber Co., of Kansas City, Mo.	Rubber matting	\$4.42
14	Luther Poland	Salary for September	97.80
14	J. M. Wardlaw	do	130.40
14	Church & Stephenson	Lumber	11.60
14	The United States Electric Lighting Co.	Electric light. September	12.00
14	Alfred Burnett	Labor in September	39.00
14	L. H. Hopkins	Hardware	5.70
15	John A. Bell	Services and expenses. September	17.72
15	Charles Cowie	do	52.12
15	W. Judson Smith	Salary for September	260.00
15	Watson Pickrell	Salary and expenses. September	382.60
15	Pittsburg, Cincinnati, Chicago and St. Louis Rwy. Co.	Transportation	7.50
15	Pennsylvania Co.	do	50.00
17	W. H. Wray	Salary and expenses. September	441.73
17	J. F. Ryder	do	272.18
17	Rand, McNally & Co	Mucilage, tags, etc.	15.00
17	William D. Jorden	Salary and expenses, September	205.70
17	Albert Dean	do	176.40
17	Howard Rhoads	do	150.15
17	Chas. E. Collins	do	130.35
17	B. L. Stine	do	115.65
17	D. M. Ward	Salary for September	114.20
17	Joseph Bruser	do	114.20
17	Anderson M. Hunter	do	114.20
17	W. S. Wade	do	97.80
17	Perry Hodgen	do	97.80
17	Guy A. Adams	Salary and expenses, September	79.52
17	J. C. Lambdin	Salary 23 days. September	75.00
17	J. T. Claris	Office expenses, August	3.15
17	do	Office rent, September	10.00
17	Thos. W. Oshel	Salary and expenses, Sept. 19 to 30	55.15
17	do	Salary, Sept. 1 to 18	58.70
17	James Wilson	Office expenses, September	4.90
17	do	Office expenses, August	7.50
17	Packers' National Bank	Office rent, South Omaha, Nebr	42.00
17	C. A. Melcher	Mucilage, varnish, etc.	35.70
17	D. Cameron	Paste	2.50
17	City Towel and Linen Co	Towel supply, September	2.25
17	J. A. Doe	Electric light, September	1.90
17	do	Ice, September	2.25
17	A. C. Rayner	Gasoline, etc.	1.40
17	G. W. Ward	Salary and expenses, September	172.85
17	William J. Taylor	do	86.92
17	E. C. Schroeder	Expenses in September	55.00
17	F. O. Walcker	Hardware	54.89
17	Jas. T. Cooke	Stationery	29.75
17	Michael J. Quirk	Expenses in September	19.00
17	R. Sears	Office expenses, August	2.75
17	J. Block	Slaughtered cattle	10.00
17	Perkins, Goodwin & Co.	Bleaching powder	50.56
18	United States Express Co.	Transportation in September	16.45
18	Edw. S. Schmid	Pigeons for experimental purposes	15.00
18	Mr. Conklin	Salary and expenses. September	94.55
18	Washburn Brothers Co.	Lime	40.00
18	John Broderick	Office rent, September	16.00
18	A. C. Rayner	Tacks	15.00
20	F. L. Russell	Salary and expenses, September	270.13
20	Wm. B. E. Miller	Office expenses, September	3.69
20	do	Salary and expenses, September	199.51
20	John Minto	Salary for September	114.20
20	Mrs. J. R. O'Connor	Stable rent, September	10.00
20	Robert W. Ardary	Office expenses, July	6.34
20	Kansas City, St. Joseph and Council Bluffs R. R. Co.	Transportation	5.90
20	Chicago and Northwestern Rwy. Co.	do	7.84
20	Pennsylvania R. R. Co.	do	31.10
20	Denver and Rio Grande R. R. Co.	do	36.75
20	Fremont, Elkhorn and Missouri Valley R. R. Co.	do	39.66
20	R. S. Forbes	Expenses in October	40.25
20	Geo. C. Faville	Salary, Oct. 1 to 15	101.90
22	Denver and Rio Grande R. R. Co.	Transportation	6.00
22	Jas. S. Topham	Telescope bags	4.40

*Expenditures Department of Agriculture for fiscal year ending June 30, 1893—Cont'd.*

BUREAU OF ANIMAL INDUSTRY—Continued.

Date.	Name.	Nature of payment.	Total.
1892.			
Oct. 22	R. S. Montgomery	Salary and expenses, September	\$110.00
25	Geo. W. Knox Express	Freight charges, August	9.95
25	S. W. McGrew	Office expenses, August and September	7.40
25	M. C. Meaney	Salary, Sept. 1 to 20	39.13
25	Washington Ice Co., Chicago, Ill.	Ice, July 1 to Oct. 18	12.55
25	Yellow Pine Co.	Lumber	15.24
25	J. A. Dodge	Salary and expenses, September	166.18
25	F. E. Parsons	do	194.80
25	J. T. Claris	do	214.70
25	A. K. Robertson	Towels and ice, September	3.50
27	L. H. Schneider's Son	Salary and expenses, September	253.92
27	Sabiston & Murray	Meat saw, etc.	3.00
27	W. M. Galt & Co.	Williams, medicine, etc.	7.00
27	Chas. R. Talbert	Feed	68.63
27	City Towel and Linen Co.	do	68.96
27	L. J. Carpenter	Towel supply, South Omaha, August	2.25
27	Wm. Somerville, jr.	Livery, September	40.00
27	Hannibal and St. Joseph R. R. Co.	Office expenses, September	3.78
27	Lake Shore and Michigan Southern Rwy. Co.	Freight charges on tags	14.24
27	Metropolitan Telephone and Telegraph Co.	Transportation	20.00
28	A. M. Bauer	Telephone rent, New York, September	22.65
31	Ellen T. Keane	Repairs to water truck	3.25
		Rent "Long Meadows," July 1 to Sept. 30, 1892.	135.00
Nov. 1	D. E. Salmon <i>et al.</i>	Salaries for October	4,410.25
	Bullock & Crenshaw	Apparatus and pipette	16.00
1	D. E. Salmon	Traveling expenses in September	57.00
1	A. M. Farrington	Traveling expenses in August and October	8.55
2	H. J. Ruppert	Rent of ground on Bennings Road	41.66
2	Alfred Burnett	Labor for October	39.00
2	George W. Talbert	Cabbages	23.25
2	do	do	32.40
3	William H. Bogart	Salary and expenses, October	122.94
3	Frank H. Miller	Salary and expenses, September	186.25
3	E. C. Schroeder	Expenses, October	43.00
4	W. P. Cutler <i>et al.</i>	Salaries for October	461.40
5	Geo. S. Baker <i>et al.</i>	do	2,687.16
5	Albert Burger <i>et al.</i>	do	2,600.47
5	F. H. Bernard <i>et al.</i>	do	2,885.86
5	O. W. Green <i>et al.</i>	Labor, October	498.25
5	Edward Devoe <i>et al.</i>	Salaries, October	656.80
5	Frederick H. Gage <i>et al.</i>	do	592.90
5	E. A. v. Schweinitz	Traveling expenses	11.75
7	Washington Gaslight Co.	Gas for October	19.50
7	John Michels <i>et al.</i>	Salaries for October	878.80
7	Dighton Granger <i>et al.</i>	do	1,010.20
7	Davenport Fisher <i>et al.</i>	do	1,226.50
7	D. B. Krebpiel <i>et al.</i>	do	1,649.25
7	Floy McEwen <i>et al.</i>	do	2,745.35
7	C. Becker	Horse blankets, etc	27.50
8	John W. Martin <i>et al.</i>	Labor for October	64.00
8	James H. Logan <i>et al.</i>	Salaries for October	390.60
8	Julius Huelsen <i>et al.</i>	do	745.00
8	Lake Gas Co., Chicago, Ill.	Gas for October	3.75
8	Norman R. Adams <i>et al.</i>	Labor for October	818.00
8	S. W. McGrew <i>et al.</i>	Salaries for October	824.44
8	George Carter <i>et al.</i>	do	850.90
8	G. A. Johnson <i>et al.</i>	do	239.10
8	Amelia Barthels	do	353.50
8	James Treneman <i>et al.</i>	do	361.70
8	Mary E. Price <i>et al.</i>	do	414.20
8	John Forbes <i>et al.</i>	do	688.30
8	O. L. Boor <i>et al.</i>	do	821.70
8	Wm. Somerville, jr., <i>et al.</i>	do	1,006.80
8	H. L. Hewetson <i>et al.</i>	do	1,176.81
8	Adams Express Co.	Transportation	8.10
9	John W. Scott <i>et al.</i>	Salaries for October	1,235.40
9	James Wilson <i>et al.</i>	do	1,295.70
9	J. H. Brierly <i>et al.</i>	do	2,106.80
9	Alembert W. Brayton <i>et al.</i>	do	624.10
9	H. G. Pyle <i>et al.</i>	do	952.60
9	The Bay State Clean Towel Furnishing Co.	Towel supply, October	7.50
9	New England Telephone and Telegraph Co.	Telephone service, Boston, October	10.00

Expenditures Department of Agriculture for fiscal year ending June 30, 1893—Cont'd.

## BUREAU OF ANIMAL INDUSTRY—Continued.

Date.	Name.	Nature of payment.	Total.
1892.			
Nov. 9	Annie L. Richards, admx.	Office rent, Boston, October	\$40.00
9	Luther Holton	Salary and expenses, October	65.18
9	George H. Oliver	do	66.62
9	Lewis L. Bullard	do	66.86
9	John Shannon	do	67.10
9	Eugene R. Hendley	Salary, October	101.10
9	Thomas Coyle	Salary and expenses, October	101.81
9	Williams H. Way	do	122.00
9	Alvord H. Rose	Livery, October	45.00
10	Samuel L. Hunt	Labor, October	3.00
10	J. B. C. Phillips	Storage, Brooklyn, October	5.00
10	Edward T. Jenkins	Office rent, Brooklyn, October	45.00
10	William J. Taylor	Salary and expenses, October	89.52
10	John Mesick	do	89.52
10	John W. S. Ortiz	do	89.82
10	Frank Hollenbeck	do	90.13
10	Cornelius Vosburg	do	90.22
10	Samuel Jarvis	do	90.42
10	Chester H. Bliss	do	91.08
10	John H. Eadie	do	92.12
10	Charles E. Grogan	do	92.92
10	James Smith	do	96.22
10	J. Summer Sargent	do	114.20
10	Benj. B. Mullen	do	119.82
10	Claude D. Morris	do	130.78
10	W. H. Pendry	do	196.02
10	W. S. Devoe	Miscellaneous expenses, October	56.65
10	do	Salary and expenses, October	301.00
10	do	Office expenses, October	4.35
10	Melvin Doremus	Salary and expenses, October	120.45
10	Ira C. Kilburn	do	120.45
10	J. N. Wattpenn	do	163.15
10	Richard Kay	do	157.05
10	R. H. Moore	do	105.45
10	Tho. Crozen	do	120.45
10	B. S. Watson	do	117.45
10	Werner Runge	do	166.15
10	W. W. Curry	do	162.90
10	W. H. Cooper	do	162.90
10	James A. Walrath	do	215.65
10	Theo. De Clyne	do	163.15
10	J. H. Phelan	do	129.45
10	Mo. Conklin	do	94.75
10	James Cassey	do	91.21
10	F. H. Spengeman	Office rent, Jersey City, October	50.00
10	J. W. Hawk	Salary and expenses, October	216.20
10	H. W. Rowland	do	162.90
10	F. C. Farley	Slaughtered cattle	30.00
10	Geo. Bauer	do	30.00
10	Washburn Brothers Co.	Lime	40.00
10	Joseph A. Bogardus	Nippers and hog ringers	6.63
10	John Medloe & Son	Stationery	6.25
10	George Fick	Storage, Jersey City, October	6.00
10	Wood & Van Sant, G. A.	Office rent, Newark, October	20.83
10	The New York and New Jersey Telephone Co.	Telpho. e rent, Jersey City, October	20.20
10	Charles Haas	Slaughtered cattle	15.20
11	W. H. Rose	Salary for October	210.60
11	do	Towel supply, October	1.00
11	Henry Brister	Salary and expenses, October	150.48
11	William J. Watt	do	170.64
11	Henry S. Vanderhoff	do	149.63
11	Jos. P. McEnaney	Salary for October	101.10
11	William Foley	Salary and expenses, October	94.94
11	James Stikeman	Office rent, New York City, October	45.83
11	Chas. W. Petty	Salary and expenses, October	67.36
11	James Russell	do	87.18
11	Thomas McDermott	do	67.82
11	Hiram Jerome	do	93.18
11	George Cornish	do	88.56
11	Joseph Jarvis	do	87.08
11	Albert Dean	Salary for October	168.50
11	Joseph Bruser	do	117.90
11	W. S. Wade	do	101.10
11	Anderson M. Hunter	do	117.90
11	Perry Hodgden	do	101.10
11	Thomas W. Oshel	Salary and expenses, October	111.15
11	Howard Rhoads	do	154.55
11	O. P. Vandenberg	do	87.52

Expenditures Department of Agriculture for fiscal year ending June 30, 1893—Cont'd.

## BUREAU OF ANIMAL INDUSTRY—Continued.

Date.	Name.	Nature of payment.	Total.
1892.			
Nov. 11	Guy A. Adams.	Salary and expenses, October.	\$50.22
11	James Welch.	do.	87.62
11	Bausch & Lomb Optical Co.	Slips, etc.	22.64
11	B. Westermann & Co.	Foreign publications.	20.35
11	Haussmann & Dunn.	Surgical instruments.	10.25
11	Z. D. Gilman.	Bottles, etc.	42.93
11	C. Becker.	Bridle, etc.	12.60
12	Wilson F. Braden.	Salary for October.	84.20
12	Robt. W. Ardary.	Salary and expenses, October.	121.34
12	S. J. Nelson.	Coal.	6.50
12	J. H. Ferster.	Salary and expenses, October.	122.47
12	W. A. Willard.	do.	123.87
12	R. W. Hickman.	do.	214.52
12	E. A. Clapp.	Office rent, East St. Louis, October.	10.00
12	E. C. Matheny.	Salary, October.	101.10
12	Jas. Irwin.	Salary and expenses, October.	154.50
12	Luther Poland.	Salary for October.	101.10
12	J. M. Wardlaw.	do.	134.80
12	Emily Lucas.	Services as janitress, October.	3.50
12	Alex. Gearley & Son.	Office rent, Baltimore, October.	10.00
12	Wm. Bahlke & Sons.	Coal and wood.	10.50
12	David Holland.	Salary and expenses, October.	82.10
12	Robert Fisher.	do.	82.96
12	James A. Cunningham.	do.	82.96
12	James Boyd.	do.	82.96
12	Frederick Gross.	do.	84.20
12	Isaac L. Ball.	Salary for October.	84.20
12	Geo. C. Faville.	Salary and expenses, October.	182.98
12	John Broderick.	Office rent, New York City, October.	16.00
14	John C. Parker.	Record paper.	36.00
14	Michael J. Quirk.	Salary and expenses, October.	94.01
14	The John A. McDonald Paint and Glass Co.	Varnish.	7.50
14	E. E. Laird.	Salary, Oct. 19 to 31.	25.43
14	Ed. R. Allen.	Office expenses, October.	2.15
14	do.	Salary and expenses, October.	136.25
14	A. R. Robertson.	Office expenses, October.	2.55
14	do.	Salary and expenses, October.	255.72
14	Samuel W. Campbell.	Salary for October.	134.80
14	Samuel H. Pierce.	Salary and expenses, October.	164.80
14	The Office Toilet Supply Co.	Toilet supply, Chicago, September.	9.60
14	do.	Toilet supply, Chicago, October.	9.60
14	Mrs. J. R. O'Connor.	Stable rent, Chicago, October.	10.00
14	Chicago Telephone Co.	Telephone rent, Chicago, October.	10.42
14	Henry Korth.	Hay.	11.00
14	Atlas Tack Corporation.	Tacks.	11.50
14	C. H. Crosby.	Feed.	26.50
14	Edward Morris.	Office rent, Chicago, October.	133.33
14	John B. Sine.	Salary and expenses, October.	146.10
14	Victor A. Norgaard.	do.	159.05
14	A. D. Melvin.	Office expenses, October.	40.25
14	do.	Salary and expenses, October.	301.25
15	Wm. B. E. Miller.	do.	201.22
15	do.	Office expenses, October.	2.69
15	Wm. B. Wernitz.	Salary and expenses, October.	157.27
15	John S. Meyer.	Salary for October.	117.90
15	De N. Jewett.	do.	101.10
15	H. A. Heath.	do.	134.80
15	George H. Graham.	do.	134.80
15	F. E. Parsons.	do.	151.60
15	Edward Story.	do.	134.80
15	Joseph Hawkins.	do.	117.90
15	D. Cummings.	do.	125.00
15	J. T. Davis.	do.	101.10
15	D. R. Alton.	do.	101.10
15	Chas. A. Wilcox.	do.	101.10
15	T. L. Armstrong.	Salary and expenses, October.	196.60
16	F. B. Hamilton.	Coal.	4.90
16	R. Sears.	Salary for October.	134.80
16	D. N. Ward.	do.	117.90
16	B. L. Stine.	Salary and expenses, October.	119.55
16	Charles E. Gragg.	Office expenses, September.	5.65
16	do.	Salary and expenses, October.	136.25
16	A. C. Fulkerson.	Towel supply, Kansas City, October.	8.52
16	G. W. Tourtelott.	Office rent, Kansas City, October.	50.00
16	John M. Williams.	Hauling.	.25
16	Robert Low & Co.	Grinding glass.	2.50
16	Ohio and Mississippi Rwy. Co.	Transportation tags, July.	7.80
16	do.	Transportation tags, August.	11.70

Expenditures Department of Agriculture for fiscal year ending June 30, 1893—Cont'd.

## BUREAU OF ANIMAL INDUSTRY—Continued.

Date.	Name.	Nature of payment.	Total.
1892.			
Nov. 16	E. J. Brooks & Co.	Seals and wires	\$36.25
16	Charles H. Perry	Salary and expenses, October	140.12
16	A. R. Kennedy	Salary for October	117.90
16	Elmer E. Hoover <i>et al</i>	Salaries for October	193.10
16	Frank H. Miller	Salary and expenses for October	121.50
16	Theobald Smith	Sundry expenses in October	2.15
16	D. E. Salmon	Traveling expenses	19.55
17	J. F. Ryder	Salary and expenses for October	282.00
17	W. H. Wray	do	436.52
17	G. A. Johnson	Office expenses, October	.40
17	Julius Huelsen	do	2.45
17	M. L. Potter	Gasoline	3.25
17	Chas W. Sinclair, admir.	Salary, Oct. 1 to 15	29.35
17	James Flannery	Salary and expenses for October	94.18
17	R. S. Montgomery	do	114.13
17	James J. Brougham	Salary and expenses, Oct. 15 to 31	115.41
17	J. A. Dodge	Salary and expenses for October	163.37
17	Henry B. Ambler	Salary and expenses, October	175.25
17	A. W. Clement	do	190.35
17	Watson Pickrell	do	372.65
17	International Clean Towel Co.	Towel supply, October	5.00
17	J. G. Johnson & Co.	Rubber stamps, etc	17.85
17	J. T. Claris	Office rent, Buffalo, October	10.00
17	do	Salary and expenses, October	221.57
17	John A. Bell	Salary and expenses, Oct. 5 to 24	48.02
17	W. Judson Smith	Salary and expenses, October	318.00
17	City Towel and Linen Co.	Towel supply, October	2.25
17	D. Cameron	Paste	3.00
17	A. C. Raymer	Hammer and tacks	3.17
17	L. J. Carpenter	Livery, October	40.00
17	Packers' National Bank	Office rent, South Omaha, October	42.00
17	C. A. Melcher	Stationery, varnish, etc	45.15
17	Drake Brothers	Varnish, etc	4.35
17	Troy Laundry Co.	Toilet supplies, October	4.50
17	Minnis & Martyn	Repairing tank	3.20
17	The United States Electric Lighting Co.	Electric light, October	12.00
17	W. B. Moses & Sons	Tables and chairs	30.50
17	W. M. Galt & Co.	Feed	104.64
17	Chas. R. Talbert	do	255.92
17	S. A. Johnson, collector	Charges on scientific apparatus	1.00
18	F. O. Walker	Stoves, etc	127.55
18	John W. Hitchings	Salary and expenses, October	90.22
18	John N. Lester	do	82.82
18	David Parker	do	147.90
18	G. W. Ward	do	134.25
19	R. W. Hickman	Office expenses, October	1.83
19	Alvord H. Rose	do	4.25
19	Charles F. Nesbit	Salary and expenses, October	118.80
19	James E. Drom	do	144.15
19	Henry W. Eliot	do	163.15
19	Charles B. Michener	Traveling expenses, October and November	101.73
21	Anna Wisczorek	Services as janitress, October	30.00
21	M. L. Young	Salary for 16 days in October	80.00
21	American Railway Supply Co.	Metal tags	75.00
21	do	do	75.00
21	Charles Cowie	Salary and expenses, October	108.98
21	John Minto	Salary for October	117.90
22	William D. Jorden	Salary and expenses, October	175.45
22	W. G. Taylor	Tin signs	3.00
22	Geo. C. Faville	Office expenses, October	3.43
22	Thomas A. McLeland	Salary, Oct. 19 to 31	25.43
22	Elwood V. Davis	Salary and expenses in October	80.63
23	James A. Taylor	Coal	6.50
23	Thomas F. Taylor	do	20.90
23	Robt. W. Ardary	Office expenses, October	3.10
23	John Reynolds & Co.	Veterinary post mortem case	31.50
23	Chas. E. Collins	Salary and expenses, October	132.50
25	O. L. Boor	Office expenses, October	18.87
26	Asa L. Hazelton	Shoe boxes	1.50
29	Chicago, Milwaukee and St. Paul Rwy. Co.	Transportation	4.99
29	International Clean Towel Co.	Towel supply in August	1.45
29	J. H. Pickrell	Book, volumes 36 and 37	5.75
29	American Railway Supply Co.	Metal tags	18.75
29	Chesapeake and Ohio Rwy. Co.	Transportation	26.80
29	American Railway Supply Co.	Metal tags	37.50
29	A. E. Foote	Books	4.30
29	B. A. Pierce	Salary and expenses, October	181.80

Expenditures Department of Agriculture for fiscal year ending June 30, 1893—Cont'd.

## BUREAU OF ANIMAL INDUSTRY—Continued.

Date.	Name.	Nature of payment.	Total.
1892.			
Nov. 29	Chas. Burgess.	Book.	\$6.00
29	International Clean Towel Co.	Towel supply, September.	5.00
29	Edward Norton.	Herd Register.	1.00
29	Jno. G. Springer.	American Berkshire Records, Vol. 12.	5.00
29	Ira K. Alderman.	Book.	2.50
29	W. H. Morris.	Central Poland China Record, Vol. 13.	3.00
29	Thos. B. Wales.	Holstein-Friesian Herd Book.	2.50
29	Geo. Harding.	Colswold Record.	2.00
29	George Fick <i>et al.</i>	Labor, November.	1,419.75
30	N. H. Paaren.	Salary for September.	130.40
30	Theobald Smith.	Traveling expenses, November.	4.65
30	United States Express Co.	Transportation in October.	4.10
30	D. C. Pritchard & Co.	Livery, Chicago, Ill.	10.00
30	D. E. Salmon <i>et al.</i>	Salaries for November.	4,315.28
Dec. 1	H. J. Ruppert.	Rent of land for November, Bennings road.	41.66
1	Chas. W. Hilgard <i>et al.</i>	Salaries for October.	128.14
2	Davenport Fisher.	Office expenses, October.	4.40
2	C. R. Thomas.	Book.	5.00
2	A. P. Vredenburgh.	Stud-book, Vol. 8.	3.00
2	J. J. Hemingway.	Herd Register, Vols. 36, 37, and 38.	3.00
2	Chas. F. Mills.	Stud-book, Vol. 6.	5.00
2	Union Star Line.	Transportation car seals, July.	2.15
2	The Metropolitan Telephone and Telegraph Co.	Telephone rent, New York, October.	22.75
2	E. J. Brooks & Co.	Car seals and wires.	145.00
2	do	do	725.00
2	H. H. Rand.	Salary in November.	15.00
3	O. W. Green <i>et al.</i>	Labor, Nov. 1 to 22.	346.50
3	Edward Devoe <i>et al.</i>	Salaries for November.	646.40
3	Julius Huelsen <i>et al.</i>	do	714.00
3	George Carter <i>et al.</i>	do	753.20
3	John Michels <i>et al.</i>	do	909.45
3	Wm. Somerville, jr., <i>et al.</i>	do	1,006.40
5	J. A. Doe.	Electric light and ice, October.	5.15
5	Cincinnati, New Orleans and Texas Pacific Rwy. Co.	Transportation.	3.51
5	Elmer E. Hoover <i>et al.</i>	Salaries for November.	187.80
5	W. P. Cutler <i>et al.</i>	do	447.20
5	Floy McEwen <i>et al.</i>	do	665.80
5	H. G. Pyle <i>et al.</i>	do	963.92
5	New England Telephone and Telegraph Co.	Telephone rent, November.	10.00
5	Luther Holton.	Salary and expenses, November.	64.10
5	Lewis L. Bullard.	do	64.82
5	George H. Oliver.	do	65.06
5	John Shannon.	do	65.30
5	John W. Hitchings.	do	87.86
5	Eugene R. Hendley.	Salary for November.	97.80
5	Thomas Coyle.	Salary and expenses, November.	101.16
5	William H. Way.	do	119.02
5	Alvord H. Rose.	Livery, November.	45.00
5	James Stikeman.	Office rent, November.	45.83
5	Chas. W. Petty.	Salary and expenses, November.	68.34
5	James Russell.	do	83.82
5	Joseph Jarvis.	do	85.12
5	Geo. Cornish.	do	89.08
5	Hiram Jerome.	do	89.38
5	James Flannery.	do	90.14
5	William Foley.	do	92.00
5	Jos. P. McEnaney.	Salary for November.	114.20
5	Henry S. Vanderhoff.	Salary and expenses, November.	145.60
5	William J. Watt.	do	143.76
5	W. H. Rose.	Salary for November.	203.80
5	Washington Gaslight Co.	Gas for November.	18.75
5	The Missouri Pacific Rwy. Co.	Transportation.	5.88
5	Ohio Mississippi Rwy. Co.	Tags and stamps.	19.35
5	Fremont, Elkhorn & Missouri Valley R. R. Co.	Transportation.	30.43
5	American Railway Supply Co.	Metal tags.	75.00
6	Davenport Fisher <i>et al.</i>	Salaries for November.	1,193.00
6	John Broderick.	Office rent, New York City, November.	16.00
6	J. H. Ferster.	Salary and expenses, November.	117.32
6	W. A. Willard.	do	120.07
6	R. W. Hickman.	Office expenses, November.	1.00
6	do.	Salary and expenses, November.	210.02
6	William J. Taylor.	do	86.92
6	John Mesick.	do	86.92
6	Cornelius S. Vosburgh.	do	87.22

Expenditures Department of Agriculture for fiscal year ending June 30, 1893—Cont'd.

## BUREAU OF ANIMAL INDUSTRY—Continued.

Date.	Name.	Nature of payment.	Total.
1892.			
Dec. 6	John W. S. Ortiz	Salary and expenses, November	\$78.32
6	Samuel Jarvis	do	87.42
6	Frank Hallenbeck	do	87.71
6	Chester H. Bliss	do	88.48
6	John H. Eadie	do	89.52
6	Chas. E. Grogan	do	90.27
6	James Smith	do	92.87
6	Harry W. Kornobis	do	99.52
6	J. Sumner Sargent	do	111.60
6	Benjamin B. Mullen	do	115.62
6	Claude D. Morris	do	128.23
6	W. H. Pendry	do	190.12
7	Lake Gas Co.	Gas, Chicago, November	13.50
7	Norman R. Adams <i>et al</i>	Labor, November	824.00
7	Albert Burger <i>et al</i>	Salaries, November	2,467.87
7	Geo. S. Baker <i>et al</i>	do	2,552.20
7	F. H. Bernard <i>et al</i>	do	3,463.29
8	Amelia Barthels <i>et al</i>	do	343.00
8	O. L. Boor <i>et al</i>	do	806.60
8	F. W. Koch & Co.	Stationery	2.45
8	Emily Lucas	Services as janitress	3.50
8	Alex. Yearley & Son	Office rent, Baltimore, November	10.00
8	David Holland	Salary and expenses, November	79.50
8	James Boyd	do	80.30
8	James A. Cunningham	do	80.30
8	Robert Fisher	do	80.30
8	Frederick Gross	do	81.50
8	Isaac L. Ball	Salary for November	81.60
8	A. W. Clement	Salary and expenses, November	181.55
8	Geo. C. Faville	Office expenses, November	1.09
8	do	Salary and expenses, November	258.24
8	Geo. W. Knox Express	Freight and drayage, October	17.08
8	Mary E. Price <i>et al</i>	Salaries for November	257.46
8	J. W. Maddux <i>et al</i>	do	580.95
8	Alembert W. Brayton <i>et al</i>	do	607.80
8	John Forbes <i>et al</i>	do	740.40
8	S. W. McGrew <i>et al</i>	do	830.51
8	H. L. Hewetson <i>et al</i>	do	1,159.50
8	Thos. McFarlane	Book	3.00
8	Eimer & Amend	Surgical apparatus	12.15
8	Chas. P. Salisbury	Expenses, Nov. 16 to Dec. 4	105.25
8	do	Expenses, Oct. 17 to Nov. 11	112.50
8	A. Hoen & Co.	Inspection stamps in books	2,500.00
9	Wilson F. Braden <i>et al</i>	Salaries for November	121.60
9	James H. Logan <i>et al</i>	do	378.80
9	D. R. Krehbiel <i>et al</i>	do	1,577.59
9	J. H. Brierly <i>et al</i>	do	2,156.54
9	John N. Lester	Salary and expenses, November	70.32
9	James Welch	do	85.52
9	O. P. Vandenberg	do	85.52
9	David Parker	do	144.20
9	George Fick	Storage, Jersey City, November	6.00
9	Wood & Van Sant, G. A.	Office rent, Newark, November	20.83
9	Mo. Couklin	Salary and expenses, November	86.65
9	James Cassey	do	87.43
9	Richard Kay	do	152.25
9	W. H. Cooper	do	159.20
9	H. W. Rowland	do	159.20
9	W. W. Curry	do	159.20
9	J. N. Wittpenn	do	159.45
9	J. H. Phelan	do	111.85
9	Werner Runge	do	162.15
9	James A. Walrath	do	208.00
9	H. H. Rand	Expenses, Nov. 26 to 28	30.80
10	James Wilson <i>et al</i>	Salaries for November	1,282.60
10	John W. Scott <i>et al</i>	do	1,348.60
10	A. D. Melvin	Salary and expenses, November	315.25
10	William H. Bogart	do	119.50
10	James E. Drom	do	138.45
10	Edward Morris	Office rent, Chicago, November	133.33
10	Victor A. Norgaard	Salary and expenses, November	154.65
10	Wm. Knecken & Co	Coal	80.83
10	Doane Brothers	Lining for table, etc	50.82
10	C. H. Crosby	Feed	34.15
10	Oxley & Wilson Manufacturing Co.	Labeling compound	28.00
10	A. H. Andrews & Co	Chairs	18.00
10	Paul Rieser	Hardware	16.93
10	Chicago Telephone Co	Telephone service, November	10.42

Expenditures Department of Agriculture for fiscal year ending June 30, 1893—Cont'd.

## BUREAU OF ANIMAL INDUSTRY—Continued.

Date.	Name.	Nature of payment.	Total.
1892.			
Dec. 10	Mrs. J. R. O'Connor.	Rent, stable, Chicago, November.	\$10.00
10	The Office Toilet Supply Co.	Toilet supplies, Chicago, November.	9.60
10	Mitchell Brothers.	Slabs.	7.00
10	Wm. B. E. Miller.	Office expenses, November.	3.63
10	do	Salary and expenses, November.	191.80
10	Wm. B. Werntz.	do	135.57
10	W. M. McFadden.	American Poland China Record.	2.00
12	Z. D. Gilman.	Carbon plates, etc.	8.45
12	Adams Express Co.	Transportation, October.	60.40
12	B. Westermann & Co.	Foreign publications.	14.88
13	E. A. Clapp.	Office rent, East St. Louis, November.	10.00
13	E. C. Matheny.	Salary for November.	97.80
13	Luther Poland.	do	97.80
13	J. M. Wardlaw.	do	130.40
13	C. S. Whitney.	Coal.	11.25
13	Duncan & Masters.	Stoves, etc.	36.00
13	Davenport Fisher.	Office expenses, November.	2.40
13	Troy Laundry Co.	Toilet supplies, November.	4.50
13	Robert Keith.	Tables.	4.00
13	M. E. Hungerford Coal Co.	Coal.	30.00
13	G. W. Tourtellot.	Room rent, November.	50.00
13	Samuel W. Campbell.	Salary and expenses, November.	137.46
13	Samuel H. Pierce.	do	160.40
13	B. A. Pierce.	do	175.80
13	D. M. Ward.	Salary, November.	114.20
13	Thomas W. Oshel.	do	97.80
13	Joseph Bruser.	do	114.20
13	Albert Dean.	do	163.00
13	Perry Hodgden.	do	97.80
13	Anderson M. Hunter.	do	114.20
13	Howard Rhoads.	do	130.40
13	W. S. Wade.	do	97.80
13	B. L. Stine.	do	114.20
13	Julius Huelsen.	Office expenses, November.	2.45
13	The New York, Lake Erie and Western R. R. Co.	Transportation.	8.70
13	John A. Bell.	Salary and expenses, November.	28.92
13	Michael J. Quirk.	do	78.09
13	D. Cumming.	Salary for November.	80.00
13	J. T. Davis.	do	97.80
13	De N. Jewett.	do	97.80
13	Chas. A. Wilcox.	do	97.80
13	D. R. Alton.	do	97.80
13	Charles F. Nesbit.	Salary and expenses, November.	108.15
13	John S. Meyer.	Salary, November.	114.20
13	Joseph Hawkins.	do	114.20
13	J. A. Dodge.	Salary and expenses, November.	116.35
13	Charles Cowie.	do	116.60
13	R. S. Montgomery.	do	129.10
13	George H. Graham.	Salary for November.	130.40
13	H. A. Heath.	do	130.40
13	Edward Story.	do	130.40
13	Ed. R. Allen.	Salary and expenses, November.	132.65
13	Henry B. Ambler.	do	150.95
13	S. Stewart.	do	153.30
13	F. L. Russell.	Salary and expenses, October.	314.74
14	C. A. Melcher.	Varnish, etc.	3.60
14	International Clean Towel Co.	Towel supply, November.	5.00
14	J. T. Claris.	Office rent, Buffalo, N. Y.	10.00
14	O. L. Boor.	Office expenses, November.	11.10
14	John Bingham.	Stationery.	11.35
14	Rand, McNally & Co.	Blanks and tags.	13.25
14	Elwood V. Davis.	Salary and expenses, November.	127.93
14	James J. Brougham.	do	165.53
14	F. E. Parsons.	do	195.30
14	Dighton Granger <i>et al.</i>	Salaries for November.	975.89
14	Codman & Shurtleff.	Ratchets for microscopes.	1.25
14	Bay State Clean Towel Furnishing Co.	Towel supply, November.	6.00
14	Francis Doane & Co.	Stationery, etc.	6.85
14	Annie L. Richards, administratrix.	Office rent, Boston, November.	40.00
14	A. K. Robertson.	Office expenses, November.	3.95
14	do	Salary and expenses, November.	249.92
14	J. B. C. Phillips.	Storage, Brooklyn, November.	5.00
14	Frank Vanderbilt.	Repairs to stove.	7.20
14	Edward T. Jenkins.	Office rent, Brooklyn, November.	45.00
14	Charles H. Perry.	Salary and expenses, November.	135.72
14	W. S. Devoe.	Office expenses, November.	2.85

Expenditures Department of Agriculture for fiscal year ending June 30, 1893—Cont'd.

## BUREAU OF ANIMAL INDUSTRY—Continued.

Date.	Name.	Nature of payment.	Total.
1892.			
Dec. 14	W. S. Devoe	Miscellaneous expenses, November	\$29.05
14	do	Salary and expenses, November	312.75
14	John Medloe & Son	Stationery	3.90
14	The New York and New Jersey Telephone Co.	Telephone rent, November	19.90
14	Washburn Brothers Co.	Lime	6.00
14	F. H. Spengeman	Office rent, Jersey City, November	50.00
14	R. H. Moore	Salary and expenses, November	96.85
14	Thos. Crozer	do	102.85
14	Melvin Doremus	do	105.85
14	Theo. De Clyne	do	159.45
14	J. W. Hawk	do	210.50
15	The United States Electric Lighting Co.	Electric light, November	12.00
15	Alfred Burnett	Labor, November	37.50
15	W. H. Wray	Salary and expenses, November	484.90
15	J. F. Ryder	do	291.19
15	Frederick H. Gage <i>et al.</i>	Salaries for November	575.20
15	R. Sears <i>et al.</i>	do	491.78
15	United States Express Co.	Transportation, November	9.90
15	William D. Jorden	Salary and expenses, November	147.20
15	Chas. E. Collins	do	110.80
15	Charles E. Gragg	Office expenses, November	.75
16	Pennsylvania R. R. Co.	Transportation	5.30
16	do	do	22.50
17	Thomas McDermott	Salary and expenses, November	67.14
17	G. W. Ward	do	130.05
17	F. L. Russell	do	258.04
17	W. Judson Smith	do	344.00
17	Watson Pickrell	do	350.72
17	V. A. Moore	Expenses Oct. 1 to Nov. 30	116.39
19	S. Hoxie	Holstein Friesian Register	1.50
19	Bingham & Co.	Hardware	6.05
19	George Haw & Co.	Stove, etc.	16.50
19	Rand, McNally & Co.	Stationery	32.00
19	F. O. Walcker	Tacks, brooms, etc	33.31
19	John Minto	Salary for November	114.20
19	A. R. Kennedy	do	114.20
19	Ira C. Kilburn	Salary and expenses, November	111.85
19	B. S. Watson	do	114.65
19	Henry W. Eliot	do	159.45
19	A. H. Morrow	Repairing locks	6.00
19	A. C. Raymer	Posting tacks	18.75
19	C. A. Melcher	Alcohol, varnish, etc	19.45
19	L. J. Carpenter	Livery, November	40.00
19	Packers' National Bank	Office rent, South Omaha, November	42.00
19	J. T. Claris	Salary and expenses, November	195.67
21	Nebraska State Journal	Subscription, Dec. 1 to 15, 1892	.40
21	Alvord H. Rose	Office expenses, November	3.55
21	S. W. McGrew	do	4.80
21	Ed. R. Allen	do	13.85
21	F. & M. Lantenschläger	Foreign publications	84.32
21	F. L. Kilborne	Expenses in November	75.25
22	C. E. Springman	Cartage, November	1.00
22	W. H. Rose	Towels, November	1.00
22	L. M. Crothers	Mexico Record, vols. 1 and 2	1.00
22	George A. Miller	Salary and expenses in November	58.75
22	Henry Brister	Salary and expenses, November	138.10
23	Robert W. Ardary	do	117.36
24	L. P. Sisson	American Devon Record, vol. 5	3.00
24	Theobald Smith	Expenses, Dec. 10 to 20	37.90
24	E. C. Schroeder	do	44.21
27	Robt. W. Ardary	Office expenses, November	1.39
27	A. C. Fulkerson	Towel supply, November	8.91
27	Charles E. Gragg	Salary and expenses, November	131.65
27	J. T. Wayne	Taking down awning, etc.	3.25
27	Sharp & Smith	Forceps and scissors	24.00
27	A. D. Melvin	Office expenses, November	62.78
27	Union Stock Yard and Transit Co.	Feed and freight on cattle	64.50
27	John B. Sine	Salary and expenses, November	142.80
27	D. E. Salmon	Traveling expenses	140.25
30	People's Dispatch Co.	Freight charges, September	33.18
30	Adams Express Co.	Transportation, November	46.05
31	Z. D. Gilman	Compressors, etc.	410.33
31	do	Shears, forceps, etc.	64.35
31	H. H. Rand	Salary for December	135.00
31	D. E. Salmon	Additional compensation, Oct. 1 to Dec. 31	250.00

Expenditures Department of Agriculture for fiscal year ending June 30, 1893—Cont'd.

## BUREAU OF ANIMAL INDUSTRY—Continued.

Date.	Name.	Nature of payment.	Total.
1892.			
Dec. 31	F. E. Parsons	Salary and expenses, December	\$238.60
31	D. E. Salmon <i>et al</i>	Salaries for December	4,595.20
	Amount of vouchers in second quarter.		176,811.05
	Rent of laboratory		300.00
	Swine plague		1,434.25
	Total second quarter		178,545.30
1893.			
Jan. 2	Chicago, Northwestern Rwy. Co.	Transportation	29.58
2	H. G. Pyle	Office expenses, November	1.80
2	Bausch & Lomb Optical Co	Repairing microscope	3.50
2	Jacob Klapper	Ice, Oct. 21 to Nov. 30	4.20
2	John Forbes	Office expenses, November	6.60
2	Pittsburg, Cincinnati, Chicago and St. Louis Rwy. Co.	Transportation	10.95
2	The Metropolitan Telephone and Telegraph Co.	Telephone rent, November	22.35
2	E. J. Brooks & Co.	Car seals and wires	145.00
2	G. A. Johnson <i>et al</i>	Salaries for November	231.80
3	H. J. Ruppert	Land rent, Bennington Road, December	41.66
3	Ellen T. Keane	Land rent, "Giers' Woods," Oct. 1 to Dec. 31	75.00
3	do	Land rent, "Long Meadows," Oct. 1 to Dec. 31	135.00
4	Alfred Burnett	Labor, December	40.50
4	Woodward & Lothrop	Duster and brush	2.50
4	do	Towels	8.34
4	Sackett & Wilhelms Lithographic Co.	Plates for Report on Sheep Industry	3,146.65
5	Wm. Somerville, jr., <i>et al</i>	Salaries for December	1,157.46
5	John Michels <i>et al</i>	do	1,160.69
5	H. G. Pyle <i>et al</i>	do	1,171.50
6	Lake Gas Co., Chicago, Ill.	Gas for December	12.25
6	Wm. Bates <i>et al</i>	Labor, December	540.00
6	Alfred Burger <i>et al</i>	Salaries for December	2,545.20
6	F. H. Bernard <i>et al</i>	do	4,306.94
7	The Circuit Co.	Plates of Diseases of Cattle, etc	1,896.00
7	Washington Gaslight Co.	Gas for December	20.25
7	G. A. Johnson <i>et al</i>	Salaries for December	239.10
7	Robt. W. Ardary <i>et al</i>	do	282.10
7	James Treneman <i>et al</i>	do	412.20
7	W. P. Cutler <i>et al</i>	do	461.40
7	John Forbes <i>et al</i>	do	786.36
7	O. L. Boor <i>et al</i>	do	821.70
7	Dighton Granger <i>et al</i>	do	1,040.20
7	James Wilson <i>et al</i>	do	1,331.70
7	J. H. Brierly <i>et al</i>	do	2,156.70
7	S. W. McGrew <i>et al</i>	do	842.30
7	E. J. Brooks & Co.	Car seals and wires	290.00
9	Amelia Barthels <i>et al</i>	Salaries for December	353.50
9	D. R. Krehbiel <i>et al</i>	do	1,727.46
9	Geo. S. Baker <i>et al</i>	do	2,987.60
9	E. J. Brooks & Co.	Car seals and wires	725.00
9	Thos. Somerville & Sons	Repairing instruments	3.80
9	Edward Devoe <i>et al</i>	Salaries for December	666.80
9	Julius Huelsen <i>et al</i>	do	755.00
9	George Carter <i>et al</i>	do	818.40
9	Floy McEwen <i>et al</i>	do	1,168.70
10	J. H. Mann	Stationery, etc.	3.03
10	Union Stock Yards and Transit Co.	Office rent, Chicago, December	15.00
10	Samuel H. Pierce	Salary and expenses, December	164.80
10	B. A. Pierce	do	179.80
10	Union Stock Yards and Transit Co.	Freight charges, etc.	15.00
10	J. W. Taylor	Photographing cattle	25.00
10	Hicks & Carroll	Kalsomining	50.00
10	William H. Bogart	Salary and expenses, December	123.11
10	Victor A. Norgaard	do	144.05
10	James E. Drom	do	145.15
10	John B. Sine	do	146.10
10	A. D. Melvin	do	312.25
10	Julius Heinenman	Stages, compressors, etc.	328.50
10	Luther Holton	Salary and expenses, December	65.66
10	George H. Oliver	do	66.62
10	Lewis L. Bullard	do	66.62
10	John Shannon	do	66.86
10	John W. Hitchings	do	89.50

Expenditures Department of Agriculture for fiscal year ending June 30, 1893—Cont'd.

## BUREAU OF ANIMAL INDUSTRY—Continued.

Date.	Name.	Nature of payment.	Total.
1893, Jan. 10	Eugene R. Hendley	Salary for December	\$101.10
10	Thomas Coyle	Salary and expenses, December	104.64
10	William H. Way	do	123.44
10	Alvord H. Rose	Office expenses, December	1.50
10	do	Livery, December	45.00
10	Chesapeake and Potomac Telephone Co.	Telephone rent, Oct. 1 to Dec. 31	85.19
10	John C. Parker	Railroad Guide and letter-copying machine	63.00
10	John W. S. Ortiz	Salary and expenses, December	88.57
10	John Mesick	do	89.72
10	William J. Taylor	do	89.72
10	Samuel Jarvis	do	90.62
10	Cornelius S. Vosburg	do	90.82
10	Chester H. Bliss	do	91.34
10	John H. Eadie	do	92.42
10	Charles E. Grogan	do	93.62
10	James Smith	do	96.32
10	Harry W. Kornobis	do	106.82
10	J. Sumner Sargent	do	114.20
10	Claude D. Morris	do	132.84
10	W. H. Pendry	do	195.82
10	C. C. Georges	Traveling expenses	42.82
10	James Stikeman	Office rent, New York City, December	45.87
10	Chas. W. Petty	Salary and expenses, December	65.47
10	Thomas McDermott	do	69.76
10	Joseph Jarvis	do	87.48
10	James Flannery	do	92.54
10	Geo. Cornish	do	92.80
10	Hiram Jerome	do	93.76
10	William Foley	do	94.04
10	Jos. P. McEnaney	Salary for December	117.90
10	Henry S. Vanderhoff	Salary and expenses, December	143.62
10	William J. Watt	do	143.76
10	Henry Brister	do	153.03
10	W. H. Rose	Office expenses, December	1.00
10	do	Salary for December	210.60
11	Elmer H. Hoover <i>et al.</i>	Salaries for December	137.10
11	Alembert W. Brayton <i>et al.</i>	do	572.10
11	Lucy M. Armstrong <i>et al.</i>	do	284.88
11	Mary E. Price <i>et al.</i>	do	255.97
11	James H. Logan <i>et al.</i>	do	390.60
11	Frederick H. Gage <i>et al.</i>	do	592.30
11	James J. Brougham <i>et al.</i>	do	909.30
11	John W. Scott <i>et al.</i>	do	1,932.20
11	C. A. McCall	Labor, December	10.00
11	Dg. White	do	10.00
11	E. A. Miller	Slaughtered cattle	24.00
11	Howard Wilson	Labeling compound	2.50
11	S. J. Nelson	Coal	7.00
11	John Broderick	Office rent, New York City, December	16.00
11	J. H. Ferster	Salary and expenses, December	120.97
11	R. W. Hickman	do	216.82
11	Chicago, Milwaukee and St. Paul Rwy. Co.	Transportation	2.55
12	The Bell Telephone Co. of Philadelphia.	Telephone rent, Oct. 1 to Dec. 31	30.00
12	Wm. B. Werntz	Salary and expenses, December	136.27
12	Wm. B. E. Miller	Office expenses, December	3.69
12	do	Salary and expenses, December	196.60
12	John N. Lester	do	73.02
12	James Welch	do	88.52
12	O. P. Vandenberg	do	89.72
12	David Parker	do	147.90
12	George Fick	Storage, Jersey City, December	6.00
12	F. H. Spengeman	Office rent, Jersey City, December	50.00
12	B. S. Watson	Salary for December	84.20
12	James Cassey	Salary and expenses, December	89.85
12	Ira C. Kilburn	do	108.45
12	Richard Kay	do	157.25
12	W. H. Cooper	do	162.90
12	H. W. Rowland	do	162.90
12	J. N. Wittpenn	do	163.15
12	Theo. De Clyne	do	163.15
12	Henry W. Elliot	do	163.15
12	W. W. Curry	do	165.80
12	Werner Runge	do	167.65
12	James A. Walrath	do	213.50
12	J. W. Hawk	do	215.00

*Expenditures Department of Agriculture for fiscal year ending June 30, 1893—Cont'd.*

BUREAU OF ANIMAL INDUSTRY—Continued.

Date.	Name.	Nature of payment.	Total.
1893.			
Jan. 12	W. S. Devoe .....	Salary and expenses, December .....	\$297.70
12	Emily Lucas .....	Services as janitress, December .....	3.50
12	Adams Express Co. ....	Express charges on hog rings .....	5.20
12	Wm. Bahlike & Sons .....	Coal and wood .....	9.25
12	Alex. Yearley & Son .....	Office rent, Baltimore. December .....	10.00
12	Chesapeake & Potomac Telephone Co .....	Telephone rent, Baltimore. ....	25.00
12	David Holland .....	Salary and expenses, December .....	82.00
12	James Boyd .....	..... do .....	82.96
12	Robert Fisher .....	..... do .....	82.96
12	James A. Cunningham .....	..... do .....	82.96
12	Frederick Gross .....	..... do .....	84.00
12	Charles F. Nesbit .....	..... do .....	106.95
12	A. W. Clement .....	..... do .....	173.50
12	Geo. C. Faville .....	Office expenses, December .....	2.45
12	..... do .....	Salary and expenses, December .....	227.80
13	Davenport Fisher <i>et al</i> .....	Salaries for December .....	1,228.50
13	H. L. Hewetson <i>et al</i> .....	..... do .....	2,452.45
13	Perry Hodgen .....	Salary for December .....	101.10
13	Charles E. Collins .....	..... do .....	101.10
13	Thos. W. Oshel .....	..... do .....	101.10
13	W. S. Wade .....	Salary and expenses, December .....	101.10
13	Wm. D. Jordan .....	..... do .....	111.35
13	Joseph Bruser .....	..... do .....	117.90
13	Anderson M. Hunter .....	..... do .....	117.90
13	B. L. Stine .....	..... do .....	117.90
13	D. M. Ward .....	..... do .....	117.90
13	Howard Rhoads .....	..... do .....	134.80
13	Albert Dean .....	..... do .....	172.90
13	Luther Poland .....	Salary for December .....	101.10
13	J. M. Wardlaw .....	..... do .....	134.80
13	Chas. A. Wilcox .....	..... do .....	101.10
13	De N. Jewett .....	..... do .....	101.10
13	D. R. Alton .....	..... do .....	101.10
13	A. R. Kennedy .....	..... do .....	117.90
13	Jas. Irwin .....	..... do .....	117.90
13	Edward Story .....	..... do .....	134.80
13	H. A. Heath .....	..... do .....	134.80
13	George H. Graham .....	..... do .....	134.80
13	S. Stewart .....	Salary and expenses, December .....	211.85
13	E. A. Clapp .....	Office rent, East St. Louis, December .....	10.00
13	E. C. Matheny .....	Salary for December .....	101.10
13	Jas. Irwin .....	Salary and expenses, November .....	145.10
13	T. L. Armstrong .....	Office expenses, December .....	.25
13	..... do .....	Office expenses, November .....	.35
13	..... do .....	Salary and expenses, November .....	191.80
13	..... do .....	Salary and expenses, December .....	196.60
14	G. W. Moss .....	Steamer ticket, New York to Liverpool .....	180.00
14	Wm. Somerville, jr .....	Office expenses, November .....	.60
14	Julius Huelsen .....	Office expenses, December .....	4.65
14	O. L. Boor .....	..... do .....	8.95
14	John L. Boland Book and Stationery Co. ....	Stationery, etc. ....	2.00
14	..... do .....	..... do .....	3.35
14	The Oxley & Wilson Manufacturing Co. ....	Labeling compound .....	13.50
14	St. Louis National Stock Yards .....	Office rent, Nov. 11 to 30 .....	33.33
14	..... do .....	Office rent, December .....	50.00
14	Emma Snyder .....	Services as janitress, December .....	30.00
14	James J. Brougham .....	Office expenses, November .....	40.00
14	Meyer Bros.' Drug Co. ....	Turpentine and jug .....	1.80
14	A. C. Fulkerson .....	Towel supply, December .....	9.13
14	G. W. Tourtellot .....	Office rent, Kansas City, December .....	50.00
14	Charles E. Gragg .....	Office expenses, December .....	.50
14	..... do .....	Salary and expenses, December .....	136.15
14	Pennsylvania R. R. Co. ....	Transportation .....	103.90
14	Vandalia Line .....	..... do .....	3.33
14	B. Westermann & Co. ....	Foreign publications .....	50.90
14	Chicago and Northwestern Ry. Co. ....	Transportation tags .....	.17
16	C. C. Georges .....	Services, January 7 to 16 .....	100.00
16	Ed. R. Allen .....	Office expenses, December .....	4.30
16	..... do .....	Salary and expenses .....	137.10
16	Drake Brothers .....	Varnish .....	2.60
16	Davenport Fisher .....	Office expenses, December .....	2.80
16	Troy Laundry Co. ....	Toilet supplies, December .....	4.50
16	J. F. Ryder .....	Salary and expenses, December .....	285.15
16	W. H. Wray .....	..... do .....	447.02
16	J. T. Claris .....	Office rent, Buffalo, December .....	10.08

Expenditures Department of Agriculture for fiscal year ending June 30, 1893—Cont'd.

## BUREAU OF ANIMAL INDUSTRY—Continued.

Date.	Name.	Nature of payment.	Total.
1893.			
Jan. 16	J. T. Claris	Salary and expenses, December	\$217.32
16	D. Cameron	Paste	6.50
16	A. C. Raymer	Pasting sacks, etc.	22.71
16	L. J. Carpenter	Horse and buggy, December	40.00
16	Packers' National Bank	Office rent, South Omaha, December	42.00
16	C. A. Melcher	Varnish, stationery, etc.	51.50
16	W. G. Sloane	Furniture, etc.	169.10
16	New England Telephone and Telegraph Co.	Telephone rent, Boston, December	10.00
16	The Bay State Clean Towel Furnishing Co.	Towel supply, December	10.50
16	Annie L. Richards, administratrix.	Office rent, Boston, December	40.00
16	John Medole & Son	Stationery	2.35
16	The New York and New Jersey Telephone Co.	Telephone rent, Jersey City, December	16.95
16	do	Telephone rent, Brooklyn, Oct. 1 to Dec. 31.	40.15
16	Edward T. Jenkins	Office rent, Brooklyn, December	45.00
16	Frank Hallenbeck	Salary and expenses, December	91.91
16	Benj. B. Mullen	do	119.17
16	Charles H. Perry	Office expenses, December	140.32
16	A. K. Robertson	Salary and expenses, December	2.00
16	do	Oil, alcohol, etc.	275.27
16	The Kotzenburg Co.	Walnut wood	2.57
16	Wm. Kuecken & Co.	Smokestack	7.00
16	Paul Rieser	Telephone rent, December	8.00
16	Chicago Telephone Co.	Tacks	10.42
16	Atlas Tack Corporation	Plumbing	11.50
16	William R. Morrow	Feed	40.20
16	C. H. Crosby	Office rent, Chicago, December	49.85
16	Edward Morris	Services as janitress, Dec. 29 to 31	133.33
16	Hattie Gates	Coal	2.91
16	F. B. Hamilton	Office expenses, December	4.92
16	James J. Brougham	Varnish, etc.	5.70
16	Howard Meyers	Transportation	6.40
16	Louisville and Nashville R. R. Co.	do	17.50
16	Chicago, St. Paul, Minneapolis and Omaha Rwy. Co.	do	18.84
16	F. O. Walcker	Tacks, etc.	26.97
16	D. Cumming	Salary for 7 days, December	35.00
16	John A. Bell	Salary and expenses, December	36.80
16	Charles Cowie	do	50.50
16	James Russell	do	87.48
16	Isaac L. Ball	Salary for December	101.10
16	Joseph Hawkins	do	117.90
16	W. A. Willard	Salary and expenses, December	124.07
16	Samuel W. Campbell	Salary for December	134.80
16	R. T. Daily	Salary and expenses for December	137.95
16	Henry B. Ambler	do	155.75
16	F. L. Russell	do	220.05
16	F. L. Kilburne	Expenses in December	181.62
16	Theobald Smith	Sundry expenses in laboratory	2.11
17	The United States Electric Lighting Co.	Electric light, December	12.00
17	Wilmarth & Edmonston	Pans	8.64
17	Geo. W. Talbert	Cabbages	16.30
17	do	do	21.00
18	Thos. T. Keane	Hearts, heads, etc., of bullocks	4.75
18	Elphonso Young	Prepared food for experiments on animals	7.00
18	W. M. Galt & Co.	Feed	34.88
18	do	do	104.64
18	Charles R. Talbert	do	162.75
18	do	do	241.80
19	H. G. Pyle	Office expenses, December	3.10
19	J. T. Claris	Office expenses, November and December	3.73
19	International Clean Towel Co.	Towel supply, December	5.00
19	The Lawyers' Coöperative Co.	General Digest, vol. 7	6.00
19	Metropolitan Telephone and Telegraph Co.	Telephone rent, New York City, Dec. 10 to 31	13.33
19	Rand, McNally & Co.	Stationery, etc.	15.75
19	Tyler Desk Co.	Desks and chairs	57.50
19	G. W. Ward	Salary and expenses, December	67.90
19	J. A. Dodge	do	145.22
19	W. Judson Smith	do	377.37
19	Oxley & Wilson Manufacturing Co.	Labeling compound	2.85
19	J. B. C. Phillips	Storage, Brooklyn, December	.90

Expenditures Department of Agriculture for fiscal year ending June 30, 1893—Cont'd.

## BUREAU OF ANIMAL INDUSTRY—Continued.

Date.	Name.	Nature of payment.	Total.
1893.			
Jan. 19	B. Glick.	Stationery, etc.	\$11.30
19	The J. H. North Furniture and Carpet Co.	Furniture, etc.	209.85
19	Mrs. J. R. O'Connor.	Rent of stable, December.	10.00
19	Theodor B. Zuerndel.	Salary for December.	50.50
19	A. D. Melvin.	Office expenses, December.	63.08
21	A. H. Andrews & Co.	Chairs.	36.00
23	The Nassau Gaslight Co.	Gas, Brooklyn, July 1 to Dec. 31.	2.50
23	Ed. F. Pickering.	Stamp and ink.	12.00
23	Frank H. Miller.	Salary and expenses, November.	47.50
23	Chicago and Northwestern Ry. Co.	Transportation.	76.02
23	R. Sears.	Office expenses, December.	3.95
23	do	Salary and expenses, December.	136.75
23	E. J. Brooks & Co.	Car seals and wires.	290.00
24	Pittsburg, Cincinnati, Chicago and St. Louis Ry. Co.	Transportation.	3.50
24	Lake Shore and Michigan Southern Ry. Co.	do	9.15
24	Pennsylvania Co.	do	17.50
24	Doane Bros.	Labor and material.	43.21
24	Ezra S. Stearns.	Session laws of New Hampshire.	1.00
24	J. E. Tindal.	Acts of 1890, State of South Carolina.	1.50
24	Babcock Paint, Glass, and Wall Paper Co.	Matting.	23.50
24	John Warrack.	Drayage.	2.50
24	Frank Pivonka.	Office rent, South Omaha, Dec. 3 to 31.	46.77
24	Maggie Ward.	Salary for December.	50.50
24	Nellie Ronan.	do	50.50
24	V. A. Moore.	Expenses in December.	48.13
24	Sherman D. Maynard.	Expenses, Dec. 24 to Jan. 19.	68.15
24	Geo. E. Hutchins.	Covering table, etc.	22.50
24	S. S. Shedd & Bro.	Gas portables.	15.00
24	Geo. W. Knox Express.	Freight and drayage, November.	30.95
25	Chas. Truax Greene & Co.	Bottles and jars.	2.32
25	do	Potash, etc.	124.75
25	The Office Toilet Supply Co.	Toilet supplies, Chicago, December.	10.14
25	Miller Lock Co.	Repairs to boxes and locks.	15.02
25	Vandalia Line.	Transporting car seals, October.	5.33
25	Central R. R. Co. of New Jersey.	Transportation.	6.50
25	John Minto.	Salary for December.	117.90
26	Geo. A. Miller.	Salary and expenses for December.	86.50
27	E. G. White, secretary of state.	Penal code of California.	2.50
27	The Chicago and Alton R. R. Co.	Transportation.	7.50
27	R. S. Montgomery.	Salary and expenses, December.	122.40
28	J. B. Chamberlain.	Plates.	2.30
28	United States Express Co.	Transportation.	7.40
31	Metropolitan Telephone and Telegraph Co.	Telephone rent.	22.20
31	E. J. Brooks & Co.	Seals and wires.	145.00
31	Heliotype Printing Co.	Plates for reports on Diseases of Cattle.	1,070.69
31	V. A. Moore.	Expenses, Jan. 17 to 19.	25.05
31	W. Teschner.	Microscope, etc.	22.13
31	D. E. Salmon <i>et al.</i>	Salaries for January.	4,639.40
Feb. 1	H. J. Ruppert.	Land rent, Bennington road, January.	41.66
1	C. C. Georgeson.	Salary, Jan. 17 to 31.	150.00
2	E. J. Brooks & Co.	Car seals and wires.	362.50
2	Chas. P. Salisbury.	Expenses, Washington to Chicago and return.	41.30
3	Frederick H. Gage <i>et al.</i>	Salaries for January.	606.20
3	Julius Huelsen <i>et al.</i>	do	712.00
3	Edward Devoe <i>et al.</i>	do	743.60
3	George Carter <i>et al.</i>	do	795.50
3	Floy McEwen <i>et al.</i>	do	1,281.00
3	Wm. Summerville, jr., <i>et al.</i>	do	1,389.13
3	Annie Burnett.	Washing towels, July 1 to Dec. 3, 1892.	4.80
3	Alfred Burnett.	Labor, January.	39.00
3	D. E. Salmon.	Expenses, Washington to Chicago and return.	41.65
4	John Michels <i>et al.</i>	Salaries for January.	1,606.38
4	H. G. Pyle <i>et al.</i>	do	1,198.20
4	James Wilson <i>et al.</i>	do	1,337.00
4	Wm. Bates <i>et al.</i>	Labor, January.	516.00
4	Norman R. Adams <i>et al.</i>	Salaries for January.	2,04.00
4	J. L. Jones.	Article on "The Mule," etc.	60.00
6	Geo. F. Lotterle.	Wire line.	2.60
6	James Stikeman.	Office rent, January, New York City.	45.83
6	Chas. W. Petty.	Salary and expenses, January.	65.68
6	Thomas McDermott.	do	70.68

Expenditures Department of Agriculture for fiscal year ending June 30, 1893—Cont'd.

## BUREAU OF ANIMAL INDUSTRY—Continued.

Date.	Name.	Nature of payment.	Total.
1893.			
Feb. 6	James Russell	Salary and expenses, January	\$82.46
6	Joseph Jarvis	do	83.92
6	Geo. Cornish	do	92.98
6	Hiram Jerome	do	94.08
6	William Foley	do	95.04
6	James Flannery	do	96.02
6	Jos. P. McEnaney	Salary for January	120.60
6	William J. Watt	Salary and expenses, January	140.24
6	Henry S. Vanderhoff	do	149.12
6	W. H. Rose	Salary for January	215.30
6	George C. Faville	Offices expenses, January	2.45
6	Emily Lucas	Services as janitress, January	3.50
6	Wm. Bahlike & Sons	Coal and wood	9.50
6	Alex. Yearley & Son	Office rent, Baltimore, January	10.00
6	David Holland	Salary and expenses, January	82.20
6	James Boyd	do	82.96
6	James A. Cunningham	do	82.96
6	Robert Fisher	do	82.96
6	Frederick Gross	do	84.20
6	Isaac L. Ball	Salary for January	103.30
6	Geo. C. Faville	Salary and expenses, January	250.80
6	George S. Baker <i>et al.</i>	Salaries for January	3,193.20
6	E. J. Brooks & Co.	Seals and wires	145.00
6	H. L. Hewetson <i>et al.</i>	Salaries for January	3,047.47
6	Watson Pickrell	Salary and expenses, December	3,5.70
7	Robert W. Ardary <i>et al.</i>	Salaries for January	216.70
7	Elwood V. Davis <i>et al.</i>	do	823.30
7	Davenport Fisher <i>et al.</i>	do	1,252.70
7	F. H. Bernard <i>et al.</i>	do	4,915.19
7	Washington Gaslight Co.	Gas for January	23.25
8	Lake Gas Co.	Gas, Chicago, January	11.76
8	O. L. Boor <i>et al.</i>	Salaries for January	856.50
8	John Forbes <i>et al.</i>	do	852.70
8	Alembert W. Brayton <i>et al.</i>	do	584.80
8	W. P. Culter <i>et al.</i>	do	533.90
8	James Treneman <i>et al.</i>	do	421.30
8	Amelia Barthels <i>et al.</i>	do	396.90
8	Elmer E. Hoover <i>et al.</i>	do	119.30
8	Mary E. Price <i>et al.</i>	do	210.47
8	G. A. Johnson	do	244.60
8	John W. Scott <i>et al.</i>	do	1,326.60
8	Z. D. Gilman	Boxes, vials, etc.	55.60
8	D. R. Krehbiel <i>et al.</i>	Salaries for January	1,768.30
8	S. Stewart <i>et al.</i>	do	1,861.00
9	Alvord H. Rose	Office expenses, January	9.44
9	do	Livery, January	45.00
9	Dighton Granger <i>et al.</i>	Salaries for January	1,092.70
9	John W. S. Ortiz	Salary and expenses, January	90.47
9	John Mesick	do	91.42
9	Cornelius S. Vosburgh	do	92.72
9	Samuel Jarvis	do	92.82
9	Chester H. Eliss	do	92.98
9	William J. Taylor	do	93.22
9	Frank Hallenbeck	do	93.61
9	John H. Eadie	do	94.02
9	Charles E. Grogan	do	94.82
9	James Smith	do	98.22
9	Henry W. Kornobis	do	108.62
9	J. Summer Sargent	do	116.10
9	Benj. B. Mullen	do	122.17
9	Claude D. Morris	do	135.08
9	Charles H. Perry	do	143.12
9	W. H. Pendry	do	197.27
9	Anna Mundy	Salary, Dec. 27 to 31	8.15
9	S. J. Nelson	Coal	7.00
9	John Broderick	Office rent, New York City, January	16.00
9	J. H. Ferster	Salary and expenses, January	123.82
9	W. A. Willard	do	126.62
9	R. W. Hickman	do	220.92
9	Annie L. Richards, admx	Office rent, Boston, January	40.00
9	Lewis L. Bullard	Salary and expenses, January	68.02
9	George L. Oliver	do	68.02
9	John Shannon	do	68.74
9	Luther Holton	do	66.82
9	John W. Hitchings	do	91.40
9	Eugene R. Hendley	Salary for January	103.30
9	Thomas Coyle	Salary and expenses, January	107.19
9	William H. Way	do	125.42
9	Theobald Smith	Cabbages, etc.	2.44

Expenditures Department of Agriculture for fiscal year ending June 30, 1893—Cont'd.

## BUREAU OF ANIMAL INDUSTRY—Continued.

Date.	Name.	Nature of payment.	Total.
1893.			
Feb. 10	Edward Story	Salary for January	\$137.80
10	Henry B. Ambler	Salary and expenses for January	159.15
10	D. R. Alton	Salary for January	103.30
10	Samuel H. Pierce	Salary and expenses for January	167.80
10	B. A. Pierce	do	182.80
10	Wm. B. Werntz	do	129.97
10	Wm. B. E. Miller	do	200.00
10	St. Louis National Stock Yards	Office rent, January	50.00
10	James J. Brougham	Salary and expenses, January	139.55
10	Doane Bros	Labor in January	2.50
10	Chicago Telephone Co	Telephone rent, January	10.42
10	William R. Morrow	Repairing pipe, etc.	10.45
10	Union Stock Yards Transit Co.	Freight and yardage for cattle	59.75
10	Oxley & Wilson Manufacturing Co.	Labeling compound	29.50
10	James E. Drom	Salary and expenses, January	132.85
10	Edward Morris	Office rent, Chicago, January	133.33
10	John B. Sine	Salary and expenses, January	148.30
10	Victor A. Norgaard	do	158.05
10	A. D. Melvin	do	311.25
10	Jabez Fearey & Co.	Hire of horse and wagon, December	5.00
10	George Fick	Storage, Jersey City, January	6.00
10	F. H. Spengeman	Office rent, Jersey City, January	59.00
10	James Cassey	Salary and expenses, January	91.55
10	Ira C. Kilburn	do	110.35
10	Richard Kay	do	160.45
10	W. H. Cooper	do	165.60
10	H. W. Rowland	do	165.60
10	Henry W. Eliot	do	165.85
10	J. N. Wittpenn	do	165.85
10	Theo. De Clyne	do	165.85
10	W. W. Curry	do	168.50
10	Werner Runge	do	174.90
10	James A. Walrath	do	217.20
10	J. W. Hawk	do	217.70
10	W. S. Devoe	Office expenses, January	3.48
10	do	Salary and expenses, January	295.90
10	Charles Cowie	Salary, 4 days in January	20.00
10	D. Cumming	Salary, 9 days in January	45.00
10	De N. Jewett	Salary for January	103.30
10	Chas. A. Wilcox	do	103.30
10	E. C. Matheny	do	103.30
10	Joseph Hawkins	do	120.60
10	Jas. Irwin	do	120.60
10	L. A. Cuthbertson	Coal	6.12
10	R. Sears	Office expenses, January	.50
10	do	Salary and expenses, January	139.35
10	F. F. Ware	Stationery, etc.	3.20
10	R. T. Daily	Salary and expenses, January	139.90
10	James R. Able	Stationery	3.95
10	Charles F. Nesbit	Salary for January	103.30
10	A. W. Clement	Salary and expenses, January	177.10
10	John N. Lester	do	72.82
10	O. P. Vandenberg	do	91.42
10	James Welch	do	91.42
10	David Parker	do	150.60
10	Perry Hodgden	Salary for January	103.30
10	Chas. E. Collins	do	103.30
10	Thos. W. Oshel	do	103.30
10	W. S. Wade	do	103.30
10	William D. Jorden	Salary and expenses, January	107.35
10	Anderson M. Hunter	Salary for January	120.60
10	B. L. Stine	do	120.60
10	D. M. Ward	do	120.60
10	Joseph Bruser	do	120.60
10	Howard Rhoads	do	137.80
10	J. H. North	Chairs, etc.	11.50
10	Ed. R. Allen	Salary and expenses, January	140.15
11	A. C. Fulkerson	Towel supply, January	9.36
11	F. O. Walcker	Tacks, etc.	13.60
11	M. E. Hungerford Coal Co.	Coal	30.00
11	G. W. Tourtellot	Office rent, Kansas City, January	50.00
11	Chas. E. Gragg	Office expenses, January	5.20
11	do	Salary and expenses, January	138.75
11	J. H. Brerly <i>et al.</i>	Salaries, January	2,153.80
11	H. G. Pyle	Office expenses, January	1.04
11	Julius Huelsen	do	2.45
11	Robt. W. Ardary	do	2.80
11	Sabiston & Murray	Manual veterinary surgery	6.00

Expenditures Department of Agriculture for fiscal year ending June 30, 1893—Cont'd.

## BUREAU OF ANIMAL INDUSTRY—Continued.

Date.	Name.	Nature of payment.	Total.
1893.			
Feb. 11	International Clean Towel Co.	Towel supply, January	\$5.00
11	C. S. Whitney	Coal	11.00
11	O. L. Boor	Office expenses, January	11.58
11	Drake Brothers	Ink, mucilage, etc.	3.05
11	Troy Laundry Co.	Toilet supplies, January	4.50
11	Photo-Engraving Co.	Photo-engravings, etc.	24.60
11	F. E. Parsons	Salary and expenses, January	267.25
13	Chicago, Milwaukee and St. Paul R. R. Co.	Transportation	9.00
13	Pennsylvania R. R. Co.	do	56.50
13	Luther Poland	Salary for January	103.30
13	A. R. Kennedy	do	120.60
13	George H. Graham	do	137.80
13	Samuel W. Campbell	do	137.80
13	E. J. Brooks & Co.	Seals and wires	145.00
13	James H. Logan <i>et al.</i>	Salaries for January	399.70
13	Wyckoff, Seamans & Benedict	Adjusting typewriters	1.00
13	C. Becker	Horse cover, etc.	9.50
13	Capitol, North O Street, and South Washington Rwy. Co.	Car tickets	12.50
13	B. F. Guy & Co	Stove, etc.	28.80
13	H. H. Rand	Salary for January	130.00
14	Niels Jansen	Salary, Jan. 28 to 31	8.00
14	The New York and New Jersey Telephone Co.	Telephone rent, January	15.80
14	John A. Bell	Salary, 4 days in January	32.00
14	G. W. Ward	Salary, 9 days in January	45.00
14	F. L. Russell	Salary and expenses, January	110.75
14	J. A. Dodge	do	154.88
14	Albert Dean	do	212.45
14	Watson Pickrell	Salary for January	260.00
14	W. Judson Smith	Salary and expenses, January	353.00
14	D. Cameron	Paste	3.00
14	A. C. Raymer	Shears, stoves, etc.	11.15
14	L. J. Carpenter	Livery, January	40.00
14	Packers' National Bank	Office rent, South Omaha, January	42.00
14	C. A. Melcher	Varnish, etc.	48.10
14	Frank Pivonka	Office rent, South Omaha, January	50.00
14	Francis Doane & Co.	Stationery, etc.	12.05
14	The Bay State Clean Towel Furnishing Co.	Towel supply, January	12.24
14	A. K. Robertson	Office expenses, January	2.50
14	do	Salary and expenses, January	320.50
14	J. B. C. Phillips	Storage, Brooklyn, January	5.00
14	The Kotzenberg Co.	Glass, alcohol, etc.	7.13
14	Mrs. J. R. O'Connor	Rent of stable, January	10.00
14	The Office Toilet Supply Co.	Toilet supplies, January	10.83
14	Rand, McNally & Co.	Stationery, etc.	14.65
14	Edward T. Jenkins	Office rent, Brooklyn, January	45.00
14	C. H. Crosby	Feed, January	45.95
14	Chas. Truax Greene & Co	Iodide, etc.	55.90
14	Wm. Kuecken & Co.	Coal and wood	114.55
14	James A. Taylor	Coal	7.00
14	Thomas F. Taylor	Coal and wood	21.75
14	William H. Bogart	Salary and expenses, January	125.94
14	S. W. McGrew <i>et al.</i>	do	1,050.50
14	Victor A. Norgaard	Traveling expenses	28.75
15	Wm. B. E. Miller	Office expenses, January	2.69
15	James J. Brougham	do	2.95
15	W. H. Rose	do	6.00
15	New England Telephone and Telegraph Co.	Telephone rent, Boston, January	10.00
15	S. W. McGrew	Office expenses, December	18.95
15	The Metropolitan Telephone and Telegraph Co.	Telephone rent, New York City, January	20.10
15	Henry Brister	Salary and expenses, January	150.38
15	J. P. Cook & Co.	Repairing stamp, etc.	2.25
15	H. B. Fisher & Brothers	Varnish, pencils, etc.	4.60
15	J. F. Ryder	Salary and expenses, January	306.94
15	W. H. Wray	do	379.08
15	The United States Electric Lighting Co.	Electric lights, January	12.00
15	Adams Express Co.	Transportation	20.35
16	E. J. Brooks & Co.	Car seals and wires	145.00
16	J. B. Bryan & Bro.	Soap	4.19
17	Clara L. Kloes	Salary, Jan. 16 to 31	26.67
17	Robert Hagar	Stationery	5.50
17	J. T. Claris	Office rent, Buffalo, January	10.00
17	do	Salary and expenses, January	222.32

Expenditures Department of Agriculture for fiscal year ending June 30, 1893—Cont'd.

## BUREAU OF ANIMAL INDUSTRY—Continued.

Date.	Name.	Nature of payment.	Total.
1893.			
Feb. 17	R. S. Montgomery	Salary and expenses, January	\$180.65
17	B. Westermann & Co	Foreign publications	185.88
17	Daniel G. Hatch	Traveling expenses	32.85
18	Robert A. Braman	Salary, Dec. 1 to 3	5.87
18	Pennsylvania Co.	Transportation	17.50
18	H. P. King	Salary for January	137.80
18	E. J. Brooks & Co.	Car seals and wires	362.50
18	J. W. Dawson	Towel supply, January	5.40
18	Ed. R. Allen	Office expenses, January	22.97
18	Nelson Morris	Feeding cattle, Aug. 16, 1892, to Jan. 26, 1893	3,556.85
18	J. C. Baldridge	Services, Aug. 1, 1892, to Jan. 31, 1893	600.00
18	Brown, St. John & Co	186 head of cattle	1,368.40
20	Alex. Schmid	File jackets	17.52
21	C. C. Georgeson	Salary, Feb. 1 to 20	200.00
21	D. J. Jourdan	Towel supply, January	2.25
21	R. W. Hickman	Office expenses, January	2.38
21	Union Stock Yard and Transit Co.	Office rent, Chicago, January	15.00
21	John Minto	Salary, January	120.60
21	T. L. Armstrong	Salary and expenses, January	200.00
21	Annie M. Hardie	Salary, Jan. 23 to 31	15.00
21	A. D. Melvin	Office expenses, January	33.05
21	Norton Brothers	Tin boxes	112.18
21	Chas. R. Talbert	Pair of blankets	11.00
21	do	Feed	131.26
21	W. M. Galt & Co.	do	34.88
23	Bausch and Lamb Optical Co.	Covers	5.25
23	Goldberg Brothers	Hand satchel	7.00
23	E. A. Clapp	Office rent, East St. Louis, January	10.00
23	E. J. Brooks & Co.	Car seals and wires	362.50
23	Burlington and Missouri River Rwy. in Nebraska.	Transportation	2.92
23	do	Transporting car seals	10.45
23	Hannibal and St. Joseph R. R. Co.	Transporting paper tags and stamps	18.98
23	do	Transporting car seals	19.04
24	Wilmarth & Edmonston	Water cooler	4.50
24	E. J. Brooks & Co.	Car seals and wires	145.00
24	do	do	145.00
25	Mary Jetter	Salary as janitress, January	25.00
27	J. B. Kendall	Ice creepers, etc.	3.40
27	Wm. Somerville, Jr.	Office expenses, January	5.85
27	George A. Miller	Salary and expenses, Jan. 7, 25, and 28	27.50
27	E. A. v. Schweinitz	Meat for culture edia	5.00
27	H. H. Rand	Expenses in December and January	16.55
28	Schulzeberge & Koechl	Tuberculin	100.00
28	Miles Fuller	Salary for January and February	295.00
28	D. E. Salmon <i>et al.</i>	Salaries for February	4,498.55
Mar. 1	S. W. McGrew	Office expenses, January	7.15
1	H. J. Ruppert	Land rent, Benning road, February	41.66
1	Ernest Betz	Labor and material	8.66
1	Edward Story	Salary and expenses, February	235.20
2	Photo-Engraving Co.	Photo-engraving, etc	9.16
2	E. Ellis Williams	Collecting cattle ticks	10.00
2	Geo. W. Talbert	Cabbages	9.00
2	do	do	16.25
2	Alfred Burnett	Labor, February	36.00
3	Frederick H. Gage <i>et al.</i>	Salaries for February	548.60
3	Julius Huelsen <i>et al.</i>	do	672.00
3	Edward Devoe <i>et al.</i>	do	672.80
3	George Carter <i>et al.</i>	do	724.00
3	Floy McEwen <i>et al.</i>	do	1,158.00
3	John Michels <i>et al.</i>	do	510.20
3	H. H. Rand	Salary for February	120.00
6	Emily Lucas	Services as janitress, February	3.50
6	Alex. Yearley & Son	Office rent, Baltimore, February	10.00
6	David Holland	Salary and expenses, February	74.50
6	Robert Fisher	do	74.98
6	James Boyd	do	74.98
6	James A. Cunningham	do	74.98
6	Frederick Gross	do	76.10
6	Isaac L. Ball	Salary for February	93.40
6	A. W. Clement	Salary and expenses for February	159.90
6	Geo. C. Faville	Office expenses, February	1.75
6	do	Salary and expenses, February	213.40
6	Elmer E. Hoover <i>et al.</i>	Salaries for February	105.40
6	Alembert W. Brayton <i>et al.</i>	do	530.40
6	Elwood V. Davis <i>et al.</i>	do	74.40
6	Dighton Granger <i>et al.</i>	do	1,005.60

Expenditures Department of Agriculture for fiscal year ending June 30, 1893—Cont'd.

## BUREAU OF ANIMAL INDUSTRY—Continued.

Date.	Name.	Nature of payment.	Total.
1893.			
Mar. 6	Davenport Fisher <i>et al.</i>	Salaries for February	\$1,136.60
7	James Wilson <i>et al.</i>	do	1,202.00
7	Wm. Somerville, jr., <i>et al.</i>	do	1,295.00
7	American Railway Supply Co.	Metal tags	18.75
7	The Metropolitan Telephone and Telegraph Co.	Telephone rent, New York City, January	21.65
7	James Stikeman	Office rent, New York City, February	45.83
7	Chas. W. Petty	Salary and expenses, February	60.33
7	Joseph Jarvis	do	63.74
7	Thomas McDermott	do	64.32
7	James Russell	do	72.48
7	Geo. Cornish	do	84.66
7	Hiram Jerome	do	84.96
7	James Flannery	do	86.12
7	William Foley	do	86.50
7	Jos. P. McEnaney	Salary for February	108.80
7	William J. Watt	Salary and expenses for February	130.69
7	Henry S. Vanclerhoff	do	135.47
7	Henry Brister	do	138.27
7	W. H. Rose	Office expenses, February	1.00
7	do	Salary for February	194.40
7	American Railway Supply Co.	Metal tags	37.50
7	Thomas Manufacturing Co.	Inspection tags	35.50
7	do	do	177.50
7	A. Hoen & Co.	Maps	250.00
8	Z. D. Gilman	Receipts, etc.	7.20
8	S. Stewart <i>et al.</i>	Salary for February	1,733.20
8	H. L. Hewetson <i>et al.</i>	do	2,718.40
9	Norman R. Adams <i>et al.</i>	do	2,322.00
9	Geo. S. Baker <i>et al.</i>	do	3,011.20
9	United States Express Co.	Transportation in January	9.25
10	D. R. Krehbiel <i>et al.</i>	Salaries for February	1,595.07
10	Amelia Barthels <i>et al.</i>	do	372.80
10	J. C. McNeil <i>et al.</i>	do	186.60
10	James H. Logan	do	360.60
10	James Treneman <i>et al.</i>	do	382.40
10	O. L. Boor <i>et al.</i>	do	763.00
10	John Forbes <i>et al.</i>	do	806.60
10	S. W. McGrew <i>et al.</i>	do	958.00
10	Washington Gaslight Co.	Gas for February	22.75
10	F. H. Bernard <i>et al.</i>	Salaries for February	4,523.94
11	G. A. Johnson <i>et al.</i>	do	220.80
11	W. P. Cutler <i>et al.</i>	do	482.20
11	H. G. Pyle <i>et al.</i>	do	1,083.60
11	John W. Scott <i>et al.</i>	do	1,337.80
11	J. H. Brierly <i>et al.</i>	do	1,979.40
11	Joseph A. Bogardus	Tacks	9.85
11	John Broderick	Office rent, New York City	16.00
11	J. H. Ferster	Salary and expenses, February	111.42
11	W. A. Willard	do	114.22
11	R. W. Hickman	do	197.72
13	George Flick	Storage, Jersey City, February	6.00
13	James Cassey	Salary and expenses, February	82.65
13	W. W. Curry	do	153.80
13	H. W. Eliot	do	154.05
13	W. H. Cooper	do	168.76
13	Werner Runge	do	158.55
13	James A. Walrath	do	200.60
13	W. S. Devoe	do	308.81
13	Luther Holton	do	61.06
13	John Shannon	do	61.30
13	Lewis L. Bullard	do	61.54
13	George H. Oliver	do	61.78
13	John W. Hitchings	do	85.50
13	Eugene R. Hendley	Salary for February	93.40
13	Thomas Coyle	Salary and expenses, February	96.86
13	William H. Way	do	114.34
13	Alvord H. Rose	Office expenses, February	1.00
13	do	Livery, February	45.00
13	John Mesick	Salary and expenses, February	82.72
13	John W. S. Ortiz	do	83.22
13	Cornelius S. Vosburg	do	83.82
13	Samuel Jarvis	do	83.92
13	Chester H. Bliss	do	84.16
13	Frank Hellenback	do	84.99
13	William J. Taylor	do	85.12
13	John H. Eadie	do	85.12
13	Charles E. Grogan	do	86.17
13	James Smith	do	88.52

Expenditures Department of Agriculture for fiscal year ending June 30, 1893—Cont'd.

## BUREAU OF ANIMAL INDUSTRY—Continued.

Date.	Name.	Nature of payment.	Total.
1893.			
Mar. 13	Harry W. Kornobis.	Salary and expenses, February	\$98.52
13	Benj. B. Mullen	do	109.72
13	J. Sumner Sargent	do	107.80
13	Charles H. Perry	do	129.32
13	Julius Huelsen	Office expenses, February	2.45
13	Pennsylvania R. R. Co.	Transportation	6.50
13	De N. Jewett	Salary for February	93.40
13	Chas A. Wilcox	do	93.40
13	D. R. Alton	do	93.40
13	Charles F. Nesbit	Salary and expenses, February	99.15
13	H. P. King	Salary, February	124.40
13	T. L. Armstrong	Salary and expenses, February	185.00
13	W. Judson Smith	do	324.00
13	Lupsner & Mathews	Stamp and dater	4.25
13	A. C. Fulkerson	Towel supply, February	9.36
13	F. O. Walcker	Tacks, etc	27.55
13	B. Friedberg	Incandescent lights	36.00
13	G. W. Tourtellot	Office rent, Kansas City, February	50.00
13	Charles E. Gragg	Office expenses, February	.50
13	do	Salary and expenses, February	125.35
13	Julius Heinemann	Milling stages, etc	45.75
13	William H. Bogart	Salary and expenses, February	112.77
13	A. D. Melvin	do	282.00
13	John N. Lester	do	64.52
13	O. P. Vandenberg	do	80.52
13	James Welch	do	81.12
13	David Parker	do	138.80
13	Bausch & Lomb Optical Co.	Repairing model stand	2.50
13	L. A. Culbertson	Coal	6.00
13	R. Sears	Salary and expenses, February	125.95
13	E. A. Clapp	Office rent, East St. Louis, February	10.00
13	E. C. Matheny	Salary for February	93.40
13	Jas. Irwin	Salary and expenses for February	123.75
13	Union Stock Yard and Transit Co.	Office rent, Chicago, February	15.00
13	Samuel W. Campbell	Salary for February	124.40
13	Samuel H. Pierce	Salary and expenses, February	154.40
13	B. A. Pierce	do	169.40
13	American Railway Supply Co.	Metal tags	187.50
13	Wm. B. Werntz	Salary and expenses, February	118.17
13	Wm. B. E. Miller	Office expenses, February	2.56
13	do	Salary and expenses, February	185.00
13	Davenport Fisher	Office expenses, February	2.80
13	Troy Laundry Co.	Toilet supplies, February	4.50
13	Wm. Somerville, Jr.	Office expenses, February	5.50
13	International Clean Towel Co.	Towel supply, February	7.00
13	H. L. Wills	Sharpening scissors	5.50
13	Chicago Telephone Co.	Telephone rent, Chicago, February	10.42
13	The Office Toilet Supply Co.	Toilet supplies, February	10.66
13	A. D. Melvin	Office expenses, February	57.65
13	Wm. Kuecken & Co.	Coal	86.74
13	Edward Morris	Office rent, Chicago, February	133.33
13	John B. Sin <sup>a</sup>	Salary and expenses, February	138.40
13	Wm. Bates et al.	Labor	438.00
14	H. H. Shepard	Blank books	36.00
14	William D. Jorden	Salary for February	93.40
14	Perry Hodgden	do	93.40
14	Thos. W. Oshel	do	93.40
14	B. L. Stine	do	108.80
14	D. M. Ward	do	108.80
14	Anderson M. Hunter	do	108.80
14	Joseph Bruser	do	108.80
14	Howard Rhoads	do	124.40
14	D. J. Jourdan	Towel supply, February	2.25
14	D. Cameron	Paste	2.50
14	A. C. Raymer	Posting tacks, etc.	15.25
14	Packers' National Bank.	Office rent, South Omaha, February	42.00
14	L. J. Carpenter	Livery, February	40.00
14	Frank Pivonka	Office rent, South Omaha, February	50.00
14	Charles Cowie	Salary and expenses, Feb. 9	5.40
14	J. H. North	Chairs	7.00
14	C. S. Whitney	Coal	7.50
14	J. W. Dawson	Towel supply, February	8.45
14	Fred W. Huntington	Services, Feb. 11, 18, and 20	15.00
14	O. L. Boor	Office expenses, February	21.77
14	D. Cumming	Salary, 6 days in February	30.00
14	John A. Bell	Salary, 4 days in February	32.00
14	G. W. Ward	Salary, 10 days in February	50.00
14	St. Louis National Stock Yards	Office rent, February	50.00

Expenditures Department of Agriculture for fiscal year ending June 30, 1893—Cont'd.

## BUREAU OF ANIMAL INDUSTRY—Continued.

Date.	Name.	Nature of payment.	Total.
1893.			
Mar. 14	F. L. Russell	Salary and expenses, February	\$91.25
14	Luther Poland	Salary for February	93.40
14	Joseph Hawkins	do	108.80
14	R. S. Montgomery	Salary and expenses for February	100.55
14	George H. Graham	Salary for February	124.40
14	James J. Brougham	Salary and expenses, February	125.55
14	Ed. R. Allen	do	126.35
14	Henry B. Ambler	Salary for February	140.00
14	J. B. C. Phillips	Storage, Brooklyn, February	5.00
14	Edward T. Jenkins	Office rent, Brooklyn, February	45.00
14	W. H. Pendry	Salary and expenses, February	195.12
14	A. K. Robertson	Office expenses, February	1.50
14	do	Salary and expenses, February	329.73
14	John Medole & Son	Stationery	7.30
14	Andrew N. Davis	Slaughtered cattle	15.00
14	The New York and New Jersey Telephone Co.	Telephone rent, Jersey City, February	17.05
14	F. H. Spengeman	Office rent, Jersey City, February	50.00
14	Ira C. Kilburn	Salary and expenses, February	114.25
14	Richard Kay	do	145.05
14	H. W. Rowland	Salary and expenses, February	153.80
14	Theo. De Ciyne	do	154.05
14	J. N. Wittpenn	do	154.05
14	J. W. Hawk	do	207.05
14	J. A. Dodge	do	147.08
14	F. E. Parsons	Salary, February; expenses, Jan. 31 to Feb. 16.	203.44
14	Watson Pickrell	Salary and expenses, February	296.60
15	Albert Dean	do	204.00
15	Chas. E. Collins	do	132.30
15	Central R. R. Co. of New Jersey	Transportation	6.50
15	B. Westermann & Co.	Foreign publications	33.47
15	American Railway Supply Co.	Metal tags	37.50
15	do	do	75.00
15	E. J. Brooks & Co.	Car seals and wires	725.00
15	The United States Electric Lighting Co.	Electric light, February	12.00
15	Ellen T. Keane	Rent land, Gier's Woods, Jan. 1 to Feb. 23.	45.53
15	Ohio and Mississippi Rwy. Co.	Transportation, stamps and tags, October	7.15
15	do	Transportation, tags, December	7.33
15	James Wilson	Office expenses, February	5.40
15	American Railway Supply Co.	Metal tags	18.75
15	Thomas Manufacturing Co.	Inspection tags	71.00
15	do	do	71.00
15	do	do	71.00
15	John Minto	Salary for February	108.80
15	John P. T. Davis	do	56.00
15	do	Salary for January	62.00
15	T. A. Geddes	Salary, Feb. 10 to 28	73.89
15	Thomas F. Taylor	Wood	2.24
15	Sabiston & Murray	Stationery	9.25
15	Mary E. Price <i>et al.</i>	Salaries for February	21.951
15	Theobald Smith	Sundry expenses in laboratory	2.80
16	S. W. McGrew	Office expenses, February	21.65
16	J. F. Ryder	Salary and expenses, February	5.98
16	W. H. Wray	do	512.41
16	Albert Hassall	Traveling expenses, February	2.17
16	Chas. R. Talbert	Feed	147.60
16	Maurice Joyce	Engraving plates	18.00
16	W. M. Galt & Co.	Feed	69.76
17	United States Express Co.	Transportation	10.10
18	C. C. Georgeson	Salary and expenses, Feb. 21 to Mar. 16	386.81
20	Chicago and Grand Trunk Ry. Co.	Transportation	6.03
20	Thomas Manufacturing Co.	Inspection tags	142.00
20	Claude D. Morris	Salary and expenses, February	122.16
20	E. J. Brooks & Co.	Car seals and wires	290.00
20	A. D. Asdikian	Salary, Mar. 1 to 15	50.00
21	New England Telephone and Telegraph Co.	Telephone rent, Boston, February	10.00
21	David Pifferling	Slaughtered cattle	50.00
21	Adams Express Co.	Transportation	9.90
23	Ed. R. Allen	Office expenses, February	2.15
23	Lawton & Burnap	Stationery	6.20
23	Lake Gas Co.	Gas for February	11.28
23	R. T. Dailey	Salary and expenses, February	126.65
23	Thomas Manufacturing Co.	Inspection tags	355.00
23	J. T. Claris	Office rent, Buffalo, February	10.00
23	do	Salary and expenses, February	206.42

Expenditures Department of Agriculture for fiscal year ending June 30, 1893—Cont'd.

## BUREAU OF ANIMAL INDUSTRY—Continued.

Date.	Name.	Nature of payment.	Total.
1893.			
Mar. 23	George A. Miller	Salary and expenses, February	\$20.00
25	Chicago, Burlington and Quincy R. R. Co.	Transportation	9.76
27	R. Sears	Office expenses, February	1.50
27	John Forbes	do	1.95
27	John L. Wise	Slaughtered cattle	10.00
27	A. R. Kenney	Salary, March 1 to 15	58.33
27	do	Salary for February	108.80
27	The Metropolitan Telephone and Telegraph Co.	Telephone rent, New York City, February	20.00
27	do	do	21.35
27	C. A. Melcher	Scalpels	4.50
27	do	Varnish, etc.	29.35
28	Chicago and Northwestern Rwy. Co	Transportation	27.30
28	Victor A. Nörgaard	Traveling expenses	3.95
28	F. L. Kilborne	do	1.28
29	Brooklyn Daily Eagle	Advertising	4.80
30	Bay State Clean Towel Furnishing Co.	Towel supply, February	14.52
30	Annie L. Richards, administratrix.	Office rent, Boston, February	40.00
30	W. S. Wade	Salary and expenses, February	103.00
31	Brooklyn Union Publishing Co	Advertising	5.40
31	E. J. Brooks & Co	Car seals and wires	145.00
31	D. E. Salmon	Additional compensation, Jan. 1 to Mar. 31	250.00
31	Henry Casson	Salary, Mar. 8 to 31	168.00
31	D. E. Salmon <i>et al.</i>	Salaries for March	5,061.25
	Amount of vouchers in quarter, Bureau of Animal Industry.		204,996.59
	Amount of vouchers in quarter, Bureau of Animal Industry, rent.		300.00
	Amount of vouchers in quarter, Bureau of Animal Industry, swine plague.		1,488.33
	Total third quarter		206,734.92
Apr. 3	T. L. Armstrong	Office expenses, October, 1892	2.27
3	Thomas Manufacturing Co.	Inspection tags	71.00
3	Lehn & Fink	Loeffler bacillus typhi murium	1.00
3	E. J. Brooks & Co.	Car seals and wires	145.00
3	do	do	362.50
3	Vandalia Line	Transportation, seals	5.33
3	Edward Devoe <i>et al.</i>	Salaries for March	743.60
3	Theobald Smith	Sundry expenses in laboratory	2.46
3	Albert Hassall	Traveling expenses	4.33
3	H. J. Ruppert	Land rent, Bennings road, March	41.66
3	Ellen T. Keane	Land rent, "Long Meadows," Jan. 1, 1893, to Mar. 31	135.00
3	Woodward & Lothrop	Cotton, etc.	2.08
4	Frederick H. Gage <i>et al.</i>	Salaries for March	544.20
4	Julius Huelsen <i>et al.</i>	do	750.00
4	George Carter <i>et al.</i>	do	810.50
4	Floy McEwen <i>et al.</i>	do	1,281.00
5	Thomas H. Scanlon	Labor for March	40.00
5	William Bates <i>et al.</i>	do	342.00
5	E. Balzer <i>et al.</i>	Salaries for March	3,703.99
6	Dighton Granger <i>et al.</i>	do	1,063.70
6	Davenport Fisher <i>et al.</i>	do	1,135.80
6	H. G. Ryle <i>et al.</i>	do	1,174.82
6	Wm. Somerville, jr., <i>et al.</i>	do	1,322.05
6	John Michels <i>et al.</i>	do	1,599.57
6	Emily Lucas	Services as janitress, March	3.50
6	Alex. Yearley & Son	Office rent, Baltimore, March	10.00
6	Chesapeake and Potomac Telephone Co.	Telephone rent, Baltimore, March	25.00
6	David Holland	Salary and expenses, March	82.00
6	James Boyd	do	82.96
6	Robert Fisher	do	82.96
6	Frederick Gross	do	84.20
6	Isaac L. Ball	Salary for March	103.30
6	Charles F. Nesbit	Salary and expenses for March	107.55
6	A. W. Clement	do	175.30
6	Geo. C. Faville	do	218.90
7	Norman R. Adams <i>et al.</i>	Salaries for March	2,530.00

Expenditures Department of Agriculture for fiscal year ending June 30, 1893—Cont'd.

## BUREAU OF ANIMAL INDUSTRY—Continued.

Date.	Name.	Nature of payment.	Total.
1893.			
Apr. 7	Lewis R. Baker <i>et al</i>	Salaries for March	\$3,140.56
8	James Stikeman	Office rent, New York City, March	45.83
8	Thomas McDermott	Salary and expenses, March	66.88
8	Chas. W. Petty	do	70.94
8	James Russell	do	78.30
8	Joseph Jarvis	do	78.50
8	Hiram Jerome	do	94.14
8	William Foley	do	94.32
8	Geo. Cornish	do	94.74
8	James Flannery	do	96.04
8	Jos. P. McEnaney	Salary for March	120.60
8	William J. Watt	Salary and expenses, March	124.04
8	Henry S. Vanderhoff	do	150.49
8	Henry Brister	do	151.99
8	W. H. Rose	Office expenses, March	1.60
8	do	Salary for March	215.30
8	Amelia Barthels	Salaries for March	413.60
8	D. R. Krehbiel <i>et al</i>	do	1,769.97
8	The Chesapeake and Potomac Telephone Co.	Telephone rent, Jan. 1 to Mar. 31, 1893	85.19
8	American Ice Co	Coal	9.98
8	Washington Gaslight Co	Gas for March	20.25
10	H. L. Hewtson <i>et al</i>	Salaries for March	2,367.30
10	W. T. Twitley <i>et al</i>	Labor for March	102.00
10	J. C. McNeil <i>et al</i>	Salaries for March	222.70
10	G. A. Johnson <i>et al</i>	do	244.60
10	Mary E. Price <i>et al</i>	do	276.80
10	James H. Logan <i>et al</i>	do	379.63
10	James Treneman <i>et al</i>	do	421.30
10	Albert W. Brayton <i>et al</i>	do	504.58
10	W. P. Cutler <i>et al</i>	do	533.90
10	Elwood V. Davis <i>et al</i>	do	762.17
10	O. L. Boor <i>et al</i>	do	870.50
10	James Wilson <i>et al</i>	do	1,221.00
11	John W. Scott <i>et al</i>	do	1,244.60
11	S. Stewart <i>et al</i>	do	1,386.36
11	J. H. Brierly <i>et al</i>	do	2,181.80
11	Bausch & Lomb Optical Co	Repairing mirror	.20
11	New England Telephone and Telegraph Co.	Telephone rent, Boston, March	10.00
11	George H. Oliver	Salary and expenses, March	66.58
11	Luther Holton	do	66.82
11	Lewis L. Bullard	do	67.78
11	John Shannon	do	68.26
11	John W. Hitchings	do	93.08
11	Thomas Coyle	do	96.65
11	Eugene R. Hendley	Salary for March	103.30
11	Alvord H. Rose	Office expenses, March	3.00
11	do	Livery	45.00
11	John Forbes <i>et al</i>	Salaries for March	893.70
11	S. W. McGrew <i>et al</i>	do	1,021.50
12	B. Westermann & Co	Foreign publications	25.56
12	Wm. B. E. Miller	Office expenses, March	5.01
12	do	Salary and expenses, March	200.00
12	The Bell Telephone Co., of Philadelphia	Telephone rent Jan. 1 to Mar. 31	30.00
12	Wm. B. Werntz	Salary and expenses for March	135.97
12	John Mesick	do	91.62
12	Samuel Jarvis	do	91.82
12	John W. S. Ortiz	do	92.97
12	Cornelius S. Vosburgh	do	93.22
12	John H. Eadie	do	94.32
12	William J. Taylor	do	94.42
12	Frank Hallenbeck	do	95.28
12	Charles E. Grogan	do	95.37
12	James Smith	do	98.67
12	Henry W. Kornobis	do	109.32
12	J. Sumner Sargent	do	116.10
12	Benj. B. Mullen	do	122.02
12	Claude D. Morris	do	135.37
12	Charles H. Perry	do	143.32
12	W. H. Pendry	do	228.81
12	W. S. Devoe	Office expenses, March	2.95
12	George Fick	Storage, Jersey City, March	6.00
12	F. H. Spengeman	Office rent, Jersey City, March	50.00
12	James Cassey	Salary and expenses, March	91.75
12	Ira C. Kilburn	do	110.35
12	W. H. Cooper	do	165.60
12	W. W. Curry	do	165.60

*Expenditures Department of Agriculture for fiscal year ending June 30, 1893—Cont'd.*

BUREAU OF ANIMAL INDUSTRY—Continued.

Date.	Name.	Nature of payment.	Total.
1893.			
Apr. 12	H. W. Rowland	Salary and expenses, March	\$165.60
12	Richard Kay	do	160.65
12	J. N. WittPenn	do	165.85
12	H. W. Eliot	do	165.85
12	Theo. De Clyne	do	165.85
12	Werner Runge	do	174.20
12	J. W. Hawk	do	217.20
12	James A. Walrath	do	217.20
12	Chicago and Northwestern Rwy. Co.	Transportation	3.92
13	Howard Wilson	Labeling compound	5.00
13	S. J. Nelson	Coal	7.00
13	John Broderick	Office rent, New York City, March	16.00
13	J. H. Ferster	Salary and expenses, March	123.62
13	W. A. Willard	do	126.72
13	R. W. Hickman	do	220.52
13	Burlington, Cedar Rapids and Northern Rwy. Co.	Transportation	11.90
13	Pennsylvania R. R. Co.	do	10.66
13	Thomas Manufacturing Co.	Inspection tags	142.00
13	do	do	71.00
13	do	do	71.00
13	E. J. Brooks & Co	Car seals and wires	290.00
13	do	do	145.00
13	do	do	145.00
13	United States Express Co	Transportation, March	2.10
13	Easton & Rupp	Twine and cotton	1.45
13	M. W. Beveridge	Trays, dippers, etc	4.07
14	F. L. Russell	Salary, 5 days, March	40.00
14	D. Crumming	Salary, 10 days, March	50.00
14	R. S. Montgomery	Salary and expenses, March	112.50
14	H. P. King	Salary for March	137.80
14	Henry B. Ambler	do	155.00
14	T. L. Armstrong	Office expenses, August	2.75
14	do	Salary and expenses, March	200.00
14	Union Stock Yards and Transit Co.	Office rent, Chicago, March	15.00
14	Samuel W. Campbell	Salary and expenses, March	163.20
14	Samuel H. Pierce	do	167.80
14	B. A. Pierce	do	182.80
14	Paul Rieser	Repairing boxes, etc	4.25
14	The Office Toilet Supply Co	Toilet supplies, March	9.52
14	Lake Gas Co.	Gas, Chicago, March	10.32
14	Chicago Telephone Co.	Telephone rent, Chicago, March	10.42
14	William H. Bryant	Salary and expenses, March	123.54
14	Edward Morris	Office rent, Chicago, March	133.33
14	John B. Sine	Salary and expenses, March	148.30
14	A. D. Melvin	do	306.00
14	Anderson M. Hunter	Salary for March	97.22
14	Perry Hodgden	do	103.30
14	Joseph Bruser	do	120.60
14	B. L. Stine	do	120.60
14	D. M. Ward	do	120.60
14	Howard Rhoads	do	137.80
14	Frederick Springman	Hauling, etc., March	1.70
14	Alfred Burnett	Labor, March	40.50
14	Adams Express Co.	Transportation, February	16.70
15	Ed. R. Allen	Office expenses, March	1.25
15	do	Salary and expenses, March	140.00
15	J. C. McNeil	Office expenses, February	.30
15	do	Office expenses, March	1.17
15	John Huber, jr.	Desk, etc.	33.50
15	H. G. Pyle	Office expenses, March	.71
15	Chicago, Milwaukee and St. Paul Rwy. Co.	Transporting car seals	1.31
15	Chicago and Grand Trunk Rwy. Co.	Transportation	6.03
15	Davenport Fisher	Office expenses, March	1.50
15	Troy Laundry Co.	Toilet supplies, March	3.00
15	L. A. Culbertson	Coal	5.00
15	R. Sears	Salary and expenses, March	139.55
15	S. W. McGrew	Office expenses, March	5.10
15	A. C. Fulkerson	Towel supply, March	9.36
15	F. O. Walcker	Tacks	12.50
15	G. W. Tourtellot	Office rent, March	50.00
15	Charles E. Gragg	Salary and expenses, March	137.80
15	Luther Poland	Salary	103.30
15	H. B. Fisher & Bros.	Dammar varnish	2.50
15	The Bay State Clean Towel Furnishing Co.	Towel supply, March	14.52

Expenditures Department of Agriculture for fiscal year ending June 30, 1893—Cont'd.

## BUREAU OF ANIMAL INDUSTRY—Continued.

Date.	Name.	Nature of payment.	Total.
1893.			
Apr. 15	The New York and New Jersey Telephone Co.	Telephone rent, March	\$19.10
15	G. W. Ward	Salary, 10 days in March	50.00
15	Rand, McNally & Co.	Cards	81.00
15	D. R. Alton	Salary for March	103.30
15	Chas. A. Wilcox	do	103.30
15	De N. Jewett	do	103.30
15	Joseph Hawkins	do	120.60
15	James J. Brougham	Salary and expenses, March	138.65
15	W. Judson Smith	do	363.00
15	Geo. C. Faville	Office expenses, March	2.00
15	Wm. Bahlke & Sons	Coal and wood	9.50
15	Rand, McNally & Co	Stationery, etc	4.00
15	Wm. Knecken & Co	Coal and wood	25.44
15	O. P. Vandenberg	Salary and expenses, March 1 to 18	53.32
15	John Lester	Salary and expenses for March	73.02
15	James Welch	do	91.62
15	David Parker	Office expenses, March	1.80
15	James J. Brougham	Office rent, March	50.00
15	St. Louis National Stock Yards	Office rent, St. Louis, March	10.00
15	E. A. Clapp	Salary for March	103.30
15	W. S. Wade	do	103.30
15	E. C. Matheny	Salary and expenses, March	150.60
15	Jas. Irwin	Office expenses, March	1.00
15	James Wilson	Towel supply, March	2.25
15	D. J. Jourdan	Varnish, etc	18.80
15	C. A. Melcher	Livery, March	40.00
15	J. R. Kelly	Office rent, South Omaha, March	42.00
15	Packers' National Bank	do	50.00
15	Frank Pivonka	Towel supply, March	5.77
17	J. W. Dawson	Salary and expenses, March	137.80
17	R. T. Daily	Office expenses, March	2.72
17	A. K. Robertson	Storage, Brooklyn, March	5.00
17	J. B. C. Phillips	Coal	6.50
17	James A. Taylor	Office rent, Brooklyn, March	45.00
17	Edward T. Jenkins	Inspection tags	71.00
17	Thomas Manufacturing Co.	do	177.50
17	do	do	177.50
17	E. J. Brooks & Co	Car seals and wires	362.50
17	do	do	725.00
17	P. Mann	Hoisting block	7.00
17	L. H. Hopkins	Wire, brooms, etc	14.25
17	J. K. Butler	Plumbing, etc	6.20
17	The U. S. Electric Lighting Co	Electric light, March	12.04
17	The Hygienic Ice Co	Ice, July to Dec. 31, 1892	16.19
18	Edward Story	Salary and traveling expenses, March	188.80
18	Watson Pickrell	Salary for March	270.00
18	James Boyd	Salary and expenses, April 1 to 15	40.40
18	Robert Fisher	do	40.40
18	Frederick Gross	do	40.40
18	James A. Cunningham	do	40.40
18	David Holland	do	40.40
18	W. H. Gibbs	Salary and expenses, March 27 to 31	23.92
18	Otis E. Sadler	Salary for March	103.30
18	Charles E. Collins	Salary and expenses for March	141.75
18	William D. Jorden	do	195.45
18	Albert Dean	do	206.25
18	Thos. Somerville & Sons	Pipe, etc	3.81
18	W. M. Galt & Co.	Feed, March	36.38
18	David Pifferling	Slaughtered cattle	95.00
18	Chas. R. Talbert	Feed, March	128.34
18	W. H. Wray	Salary and expenses, March	439.77
18	J. F. Ryder	do	200.70
19	E. C. Schroeder	Expenses, Feb. 15 to Apr. 7	36.45
19	Victor A. Norgaard	Traveling expenses	5.75
20	Chester H. Bliss	Salary and expenses, March	93.24
20	Frank E. Hopkins	Cartridges	3.00
20	S. J. Meeks	Wagon	100.00
20	Julius Huelsen	Office expenses, March	4.49
20	James A. Cunningham	Salary and expenses, March	82.96
20	Thos. W. Oshel	do	149.45
20	G. A. Johnson <i>et al.</i>	Salaries, Apr. 1 to 15	117.03
21	Ohio & Mississippi Rwy. Co	Transporting tags, January	8.04
21	Anne L. Richards	Administratrix, office rent, Boston, March	40.00
21	John A. Bell	Salary five days in March	40.00
21	William H. Way	Salary and expenses, March	125.66
21	W. S. Devoe	do	315.75
21	C. Becker	Telescope case, etc	9.00
21	People's Dispatch Co.	Transportation, March	1.36

Expenditures Department of Agriculture for fiscal year ending June 30, 1893—Cont'd.

## BUREAU OF ANIMAL INDUSTRY—Continued.

Date.	Name.	Nature of payment.	Total.
1893.			
Apr. 22	A. D. Melvin	Office expenses, March	\$42.17
25	R. Sears	do	2.85
25	Pittsburgh, Cincinnati, Chicago & St. Louis Rwy. Co.	Transportation	3.00
25	O. L. Boor	Office expenses, March	13.88
25	Alice E. Streeter	Salary, Mar. 1 to 11	18.33
25	The Metropolitan Telephone and Telegraph Co.	Telephone rent, New York City, March	20.25
25	J. T. Claris	Office rent, Buffalo, March	10.00
25	Oregon H. Phillips	Salary, Apr. 1 to 15	41.21
25	Pennsylvania Co	Transportation	52.50
25	John Medole & Son	Inspection records, etc	84.15
25	J. A. Dodge	Salary and expenses, March	117.80
26	George H. Graham	Salary for March	137.80
28	C. C. George-on	Salary and expenses, Mar. 17 to Apr. 17	264.72
28	Bausch & Lomb Optical Co	Glass slides, circulars, etc	24.68
28	J. T. Claris	Office expenses, March	1.83
28	Nassau Gaslight Co	Gas, Jan. 1 to Mar. 31	1.88
28	N. C. Strang	Slaughtered cattle	40.00
28	A. R. Robertson	Salary and expenses, March	300.89
28	Wyckoff, Seamans & Benedict	Letter paper and repairs to typewriter	47.61
28	W. B. Moses & Sons	Rugs	32.50
29	Hannibal and St. Joseph R. R. Co.	Transporting stamps, November	3.94
29	Wm. Sommerville, jr	Office expenses, March	13.97
29	Forsburg & Murray	Steam fitting	105.00
29	E. J. Brooks & Co.	Car seals and wires	362.50
30	Henry Casson	Salary for April	200.00
30	D. E. Salmon <i>et al.</i>	Salaries for April	4,890.20
May 1	Thomas Manufacturing Co.	250,000 meat inspection tags	177.50
2	Bausch & Lamb Optical Co.	One continental microscope, etc	160.10
2	E. J. Brooks & Co.	500 M car seals and wires	725.30
2	S. A. Johnson, collector	Storage on one box surgical instruments	.50
3	Eimer & Amend	One thermostat with regulator, etc	136.40
3	Alembert W. Brayton	Salaries for April	103.18
3	Floy McEwen <i>et al.</i>	do	245.60
3	Thomas E. Stucky <i>et al.</i>	do	295.41
3	Frederick H. Gage <i>et al.</i>	do	482.72
3	Julius Huelsen <i>et al.</i>	do	617.92
3	Elwood V. Davis <i>et al.</i>	do	629.90
3	George Carter <i>et al.</i>	do	786.20
3	H. G. Pyle	do	872.51
4	Thomas H. Berry <i>et al.</i>	do	128.00
4	Norman R. Adams <i>et al.</i>	do	2,431.30
4	Lewis R. Baker <i>et al.</i>	do	2,749.90
4	J. C. McNeil <i>et al.</i>	do	197.80
4	James H. Logan <i>et al.</i>	do	332.90
4	Amelia Barthels <i>et al.</i>	do	396.00
4	James Treneman <i>et al.</i>	do	404.40
5	John Forbes <i>et al.</i>	do	774.60
5	Dighton Granger <i>et al.</i>	do	1,006.28
5	James Wilson <i>et al.</i>	do	1,147.96
5	John Michels <i>et al.</i>	do	1,384.46
5	D. R. Krehbiel <i>et al.</i>	do	1,692.76
6	H. L. Hewetson <i>et al.</i>	do	2,233.51
6	H. J. Ruppert	Land rent, Bennings Road, April	41.66
6	Washington Gaslight Co	Gas for April	20.25
6	J. H. Chesley & Co	Brooms	2.71
8	W. P. Cutler <i>et al.</i>	Salaries for April	510.80
8	S. Stewart <i>et al.</i>	do	818.80
8	S. W. McGrew <i>et al.</i>	do	994.30
8	Charles E. Gragg <i>et al.</i>	do	2,115.34
8	O. L. Boor <i>et al.</i>	do	806.62
8	John W. Scott <i>et al.</i>	do	1,085.43
9	E. Baizer <i>et al.</i>	do	2,438.48
9	Emily Lucas	Services as janitress, April	3.00
9	Wm. Bahlke & Sons	Wood	4.50
9	Alex. Yearly & Son	Office rent, Baltimore, April	10.00
9	Wm. Bennett	Salary and expenses, Apr. 16 to 30	30.47
9	Nicholas W. Tegges	do	30.47
9	Joseph E. Blondell	do	30.47
9	James E. Hulbert	do	30.47
9	Ramney Thomas	do	30.47
9	Isaac L. Ball	Salary for April	98.90
9	Charles F. Nesbit	Salary and expenses for April	103.15
9	A. W. Clement	Salary for April	164.80
9	Geo. C. Faville	do	206.00
9	W. H. Rose	Towel supply, New York City, April	1.00

Expenditures Department of Agriculture for fiscal year ending June 30, 1893—Cont'd.

## BUREAU OF ANIMAL INDUSTRY—Continued.

Date.	Name.	Nature of payment.	Total.
1893.			
May 9	W. H. Rose . . . . .	Salary for April . . . . .	\$206.00
9	The Metropolitan Telephone and Telegraph Co.	Telephone rent, New York City, March . . . . .	22.15
9	James Stikeman . . . . .	Office rent, New York City, April . . . . .	45.83
9	Chas. W. Petty . . . . .	Salary and expenses, April . . . . .	63.23
9	Thomas McDermott . . . . .	do . . . . .	65.06
9	Joseph Jarvis . . . . .	do . . . . .	72.68
9	James Russell . . . . .	do . . . . .	72.78
9	George Cornish . . . . .	do . . . . .	89.62
9	Hiram Jerome . . . . .	do . . . . .	89.62
9	William Foley . . . . .	do . . . . .	91.72
9	James Flannery . . . . .	do . . . . .	92.16
9	Jos. P. McEnaney . . . . .	Salary for April . . . . .	115.40
9	Wm. J. Watt . . . . .	Salary and expenses for April . . . . .	142.94
9	Henry S. Vanderhoff . . . . .	do . . . . .	143.63
9	Henry Brister . . . . .	do . . . . .	144.35
10	W. T. Twitty <i>et al.</i> . . . . .	Labor for April . . . . .	134.00
10	George Fick . . . . .	Storage, Jersey City, April . . . . .	6.00
10	F. H. Spengeman . . . . .	Office rent, Jersey City, April . . . . .	50.00
10	J. N. Wittpenn . . . . .	Salary and expenses, April . . . . .	160.65
10	Werner Runge . . . . .	do . . . . .	164.25
10	James A. Walrath . . . . .	do . . . . .	209.80
10	W. S. Devoe . . . . .	do . . . . .	274.11
10	Francis Doane & Co . . . . .	Chamois skins, tablets, etc . . . . .	7.93
10	New England Telephone and Telegraph Co. . . . .	Telephone exchange rental, Boston, April . . . . .	10.00
10	Annie L. Richards, admx . . . . .	Office rent, Boston, April . . . . .	40.00
10	Luther Holton . . . . .	Salary and expenses, April . . . . .	63.64
10	John Shannon . . . . .	do . . . . .	61.60
10	George H. Oliver . . . . .	do . . . . .	64.84
10	Lewis L. Bullard . . . . .	do . . . . .	65.32
10	John W. Hitchings . . . . .	do . . . . .	89.38
10	Thomas Coyle . . . . .	do . . . . .	93.63
10	Eugene R. Hendley . . . . .	Salary for April . . . . .	98.90
10	William H. Way . . . . .	Salary and expenses, April . . . . .	120.46
10	Alvord H. Rose . . . . .	Office expenses, April . . . . .	1.00
10	do . . . . .	Use of horse and carriage, April . . . . .	45.00
10	International Clean Towel Co. . . . .	Towelsupply, Buffalo, April . . . . .	3.45
10	do . . . . .	Towelsupply, Buffalo, March . . . . .	7.00
10	John Broderick . . . . .	Office rent, New York, April . . . . .	16.00
10	W. A. Willard . . . . .	Salary and expenses, April . . . . .	121.12
10	R. W. Hickman . . . . .	do . . . . .	210.92
10	Lake Gas Co. . . . .	Gas for April, Chicago . . . . .	8.16
10	R. Sears . . . . .	Grinding and repairing scissors . . . . .	.70
10	do . . . . .	Salary and expenses, April . . . . .	133.75
10	William H. Bogart . . . . .	do . . . . .	118.56
10	Edward Morris . . . . .	Office rent, Chicago, April . . . . .	133.33
10	John B. Sine . . . . .	Salary and expenses, April . . . . .	143.90
10	A. D. Melvin . . . . .	do . . . . .	290.00
10	St. Louis National Stock Yards . . . . .	Rent of rooms, National Stock Yards, April . . . . .	50.00
10	James Brougham . . . . .	Salary for April . . . . .	131.90
10	C. W. Patterson . . . . .	Repairing door strips, etc . . . . .	2.50
10	Wm. B. E. Miller . . . . .	Office expenses for April . . . . .	2.63
10	do . . . . .	Salary and expenses, April . . . . .	193.30
10	Union Stock Yard and Transit Co. . . . .	Office rent, Chicago, April . . . . .	15.00
10	Samuel W. Campbell . . . . .	Salary and expenses, April . . . . .	159.65
10	Samuel H. Pierce . . . . .	do . . . . .	161.90
10	B. A. Pierce . . . . .	do . . . . .	181.31
10	Wm. Somerville, jr., <i>et al.</i> . . . . .	Salaries for April . . . . .	1,053.53
10	Davenport Fisher <i>et al.</i> . . . . .	do . . . . .	1,023.13
10	T. L. Armstrong . . . . .	Salary and expenses for April . . . . .	193.30
10	Julius Huelsen . . . . .	Office expenses for April . . . . .	2.45
11	John N. Lester . . . . .	Salary and expenses, April . . . . .	72.62
11	James Welch . . . . .	do . . . . .	86.32
11	David Parker . . . . .	do . . . . .	145.40
11	Perry Hodgden . . . . .	Salary for April . . . . .	98.90
11	Thomas W. Oshel . . . . .	Salary and expenses for April . . . . .	101.90
11	Joseph Bruser . . . . .	Salary for April . . . . .	115.40
11	D. M. Ward . . . . .	do . . . . .	115.40
11	Anderson M. Hunter . . . . .	Salary and expenses for April . . . . .	134.15
11	B. L. Stine . . . . .	do . . . . .	134.49
11	Albert Dean . . . . .	do . . . . .	173.30
12	Z. D. Gilman . . . . .	Bottles, cotton, chloroform, etc . . . . .	77.25
12	do . . . . .	Thermometers, compression glasses, etc . . . . .	167.53
12	Alfred Burnett . . . . .	25 days' labor, April . . . . .	37.50
12	The United States Electric Lighting Co. . . . .	Electric lights, Apr. 1 to 30, laboratory . . . . .	12.00
12	D. Cumming . . . . .	Salary for April . . . . .	50.00

Expenditures Department of Agriculture for fiscal year ending June 30, 1893—Cont'd.

## BUREAU OF ANIMAL INDUSTRY—Continued.

Date.	Name.	Nature of payment.	Total.
1893.			
May 12	Edward Story	Salary for April	\$131.90
12	Henry B. Ambler	Salary and expenses, April	152.45
12	Ed. R. Allen	Office expenses for April	2.75
12	do	Salary and expenses, April	133.35
12	John Warrack	Drayage on seals	2.00
12	Charles Cowie	Services in April	5.00
12	C. W. Fischer	Copying press, etc	10.00
12	Bay State Clean Towel Furnishing Co.	Towel supply, April	16.35
12	The Metropolitan Telephone and Telegraph Co.	Rent of telephone and toll service, New York City, April	20.10
12	De N. Jewett	Salary for April	98.90
12	Chas A. Wilcox	do	98.90
12	do	do	115.40
12	Joseph Hawkins	Tacks	12.50
12	F. O. Walcher	Rent of rooms, Kansas City, April	50.00
12	G. W. Tourtellot	Rent of rooms, East St. Louis, April	10.00
12	Jno Nesbit	Salary for April	98.90
12	E. C. Matheny	Salary and expenses, April	145.10
12	Jas. Irwin	do	136.50
12	Chas. E. Collins	Calcimining office	4.00
12	Hicks & Carroll	Use of toilet supplies, April	6.45
12	The Office Toilet Supply Co.	Telephone service, Chicago, April	10.42
12	Chicago Telephone Co.	Matting	20.62
12	Alexander H. Revell & Co.	Office expenses, April	94.13
12	A. D. Melvin	Soap, medicine droppers, etc	1.28
13	H. G. Pyle	Expenses as tagger	2.25
13	Joseph E. Sawtell	Coal	20.93
13	Wm. Knecken & Co.	Towel supply, South Omaha, April	2.25
13	D. J. Jourdan	Paste	3.00
13	D. Cameron	Alcohol, varnish, etc	20.15
13	C. A. Melcher	Use of horse and buggy, South Omaha, April	40.00
13	J. R. Kelley	Rent of rooms, South Omaha, April	42.00
13	Packers' National Bank	Salary and expenses, April	290.06
13	J. F. Ryder	Toilet supplies, Milwaukee, April	3.50
13	Campbell & Gregg	Towel supply, Kansas City, April	9.36
13	A. C. Fulkerson	Telephone rent, Jersey City, April	16.50
13	The New York and New Jersey Telephone Co.	Expenses from Feb. 1 to May 3	19.60
13	S. D. Maynard	Cabbages	14.00
13	Geo. W. Talbert	do	16.75
13	do	Transportation	36.25
13	Adams Express Co.	Freight on desks, chairs, etc.	20.13
13	Geo. W. Knox Express	Expenses for May	2.10
15	Victor A. Norgaard	Expenses in laboratory, April	1.98
15	Theobald Smith	Books	19.00
16	B. Westermann & Co.	Salary, 3 days in April	15.00
16	G. W. Ward	Salary and expenses for April	25.60
16	John A. Bell	Office expenses, April	4.00
16	S. W. McGrew	do	8.15
16	O. D. Boor	Meat-inspection tags	213.00
16	Thomas Manufacturing Co.	do	284.00
16	do	Car seals and wires	3.63
16	E. J. Brooks & Co.	do	435.00
17	W. H. Wray	Salary and expenses, April	421.20
17	J. H. Ferster	do	118.12
17	Geo. C. Faville	Office expenses, April	2.46
17	The Tribune Printing Co.	Advertising	2.50
17	L. A. Waters	Mucilage	4.00
17	Chicago, Burlington and Quincy Rwy. Co.	Transportation	4.18
17	Wm. H. Boultinghouse	1 cow	25.00
17	C. Dirlam	Cartage	16.00
17	Edward H. Schlueter	Services as auctioneer, Brooklyn	20.00
17	The New York and New Jersey Telephone Co.	Exchange rental, Brooklyn, Jan. 1 to Mar. 31	41.55
17	Joseph A. Brock	Lumber, nails, iron, etc	63.94
17	Thomas Manufacturing Co.	Meat-inspection tags	213.00
17	E. J. Brooks & Co.	Car seals and wires	435.00
17	W. L. King	Felt packing, laboratory	3.20
17	S. J. Meeks	Repairing buggy, etc	12.50
17	W. M. Galt & Co.	Meal, bran, and middlings	34.88
17	Charles R. Talbert	Oats, bran, timothy, etc	111.05
17	United States Express Co.	Expressage	7.55
18	Kate Ward <i>et al</i>	Salaries, May 1-15	74.19
18	J. T. Claris	Office rent, Buffalo, April	10.00
18	do	Salary and expenses, April	211.02
18	Jacob Klotz	do	359.77

Expenditures Department of Agriculture for fiscal year ending June 30, 1893—Cont'd.

## BUREAU OF ANIMAL INDUSTRY—Continued.

Date.	Name.	Nature of payment.	Total.
1893.			
May 19	Davenport Fisher	Office expenses, April	\$3.20
19	George A. Miller	Salary and expenses, April 7	8.75
19	O. L. Boor	Office expenses, May 1-15	23.68
19	Louis F. Miller <i>et al.</i>	Salaries, May 1-15	233.77
19	O. L. Boor <i>et al.</i>	do	309.97
20	Ohio and Mississippi Rwy	Transporting paper tags	6.50
22	Frank Pivonka	Room rent, South Omaha, April	50.00
22	James Wilson	Stamping ink	2.00
22	W. D. Robbins	Expressage on seals, etc.	2.70
22	W. D. Robbins <i>et al.</i>	Salaries for April	397.24
22	Otis E. Sadler	Salary and expenses, April	128.55
22	W. H. Gibbs	do	144.55
22	William D. Jorden	do	171.30
22	Edmund T. Hooker	do	172.90
22	C. C. Georgeson	Expenses on March 18	1.50
22	George A. Miller	Salary and expenses, May 15	8.75
22	H. G. Pyle	Salary, May 1 to 6, inclusive	26.37
22	F. L. Russell	Salary and expenses for April	59.75
22	R. Sears	Salary and expenses, May 1 to 15, inclusive	66.88
22	Nellie Arnold <i>et al.</i>	Salaries, May 1 to 10, inclusive	290.06
22	Thomas Manufacturing Co	Meat-inspection tags	213.00
22	Phelps Paine <i>et al.</i>	Salaries, May 1 to 15, inclusive	299.44
22	E. J. Brooks & Co	Car seals and wires	435.00
22	John M. Williams	Hauling stamps	.30
22	Ernest Betz	Making one incubator	75.00
24	Oxley & Wilson Manufacturing Co.	Labeling compound	29.50
24	John Aireth <i>et al.</i>	Salaries for April	109.23
24	A. K. Robertson	Salary and expenses, April	346.21
24	W. J. Watt	Salary, May 1 to 15	70.00
24	Thomas Manufacturing Co	Meat-inspection tags	142.00
24	E. J. Brooks & Co	Car seals and wires	290.00
24	A. Hoen & Co	Certificates of inspection	700.00
25	J. C. McNeil	Cheese cloth, mucilage, etc	1.25
25	John Reynuers & Co	One dozen hypodermic needles	8.00
25	W. B. Moses & Sons	Recaning seat of chair	1.50
25	Alfred Burnett	18 days' labor, May 1 to 20, inclusive	27.00
25	Adams Express Co	Transporting boxes, etc.	8.10
26	Etta Holland <i>et al.</i>	Salaries, May 1 to 20, inclusive	125.28
26	Nathaniel Shatswell	Salary, May 16 to 25, inclusive	38.46
27	Thomas Manufacturing Co.	Meat-inspection tags	142.00
27	Howard Rhoads	Salary and expenses, April	197.20
29	E. J. Brooks & Co	Car seals and wires	290.00
31	Henry Casson	Salary, May 1 to 31	216.00
31	D. E. Salmon <i>et al.</i>	Salaries for May	5,085.56
June 2	H. J. Ruppert	Rent of land, Bennings road, May	41.66
2	Lake Gas Co.	Gas, Chicago, May 1 to 17, inclusive	5.04
2	Metropolitan Telephone and Telegraph Co.	Telephone rent, New York, April	23.10
2	C. Dorflinger & Sons	Jars, casks, and barrels	110.00
2	Thomas Manufacturing Co	Meat-inspection tags	142.00
2	do	do	355.00
2	E. J. Brooks & Co	Car seals and wires	390.00
3	Hannibal and St. Joseph R. R.	Transporting four cases of tags	4.35
3	Ohio and Mississippi Rwy. Co.	do	8.13
5	James Herriman <i>et al.</i>	Salaries for May	108.00
5	Dighton Granger <i>et al.</i>	do	918.30
5	Norman R. Adams <i>et al.</i>	do	2,255.81
5	E. Balzer <i>et al.</i>	do	2,526.50
5	Victor A. Norgaard	Traveling expenses	65.37
6	Thomas Manufacturing Co.	Meat inspection tags	142.00
6	E. J. Brooks & Co	Car seals and wires	290.00
6	A. K. Robertson	Salary and expenses for May	320.30
6	Collin	Surgical instruments	55.48
7	W. H. Rose <i>et al.</i>	Salaries for May	1,216.80
7	Wm. H. Way <i>et al.</i>	do	637.40
7	John Michels <i>et al.</i>	do	1,602.20
7	J. J. Young <i>et al.</i>	Salaries, May 1-15	70.88
7	Floy McEwen <i>et al.</i>	Salaries for May	253.80
7	James H. Logan <i>et al.</i>	do	304.64
7	Thomas E. Stucky <i>et al.</i>	do	324.74
7	James J. Brougham <i>et al.</i>	do	490.80
7	W. P. Cutler <i>et al.</i>	do	500.63
7	Julius Huelsen <i>et al.</i>	do	574.60
7	George Carter <i>et al.</i>	do	630.10
7	John W. Scott <i>et al.</i>	do	1,013.64
8	Davenport Fisher <i>et al.</i>	do	1,100.69
8	D. R. Krebsiel <i>et al.</i>	do	1,718.54
8	Charles E. Gragg <i>et al.</i>	do	2,068.67

*Expenditures Department of Agriculture for fiscal year ending June 30, 1893—Cont'd.*

BUREAU OF ANIMAL INDUSTRY—Continued.

Date.	Name.	Nature of payment.	Total.
1893.			
June 8	Lewis R. Baker <i>et al</i> .....	Salaries for May .....	\$2,918.60
9	J. C. McNeil <i>et al</i> .....	do .....	220.40
9	J. H. Houan <i>et al</i> .....	Salaries, May 16 to 31 .....	429.03
9	Jennie Boyle <i>et al</i> .....	Salaries, May 1-23, inclusive .....	448.32
9	John Forbes <i>et al</i> .....	Salaries for May .....	556.03
9	S. Stewart <i>et al</i> .....	do .....	773.85
9	Geo. C. Faville <i>et al</i> .....	do .....	796.10
9	R. W. Hickman <i>et al</i> .....	do .....	901.57
9	Wm. Somerville, jr., <i>et al</i> .....	do .....	1,285.77
9	Washington Gaslight Co. ....	Gas for May .....	21.50
9	E. L. Siggins <i>et al</i> .....	Salaries for May .....	1,005.02
10	Southern Pacific Co. ....	Transportation .....	10.90
10	Werner Runge .....	Salary and expenses, May .....	178.66
10	James A. Walrath .....	do .....	215.40
10	W. S. Devoe .....	Office expenses, May .....	1.45
10	do .....	Salary and expenses, May .....	331.06
10	F. G. Wolbert .....	Services as auctioneer, Jersey City .....	5.50
10	George Fick .....	Rent of rooms for storage, Jersey City .....	6.00
10	Central R. R. Co. of N. J. ....	Transportation .....	6.50
10	John Fegan .....	One barrel of alcohol .....	25.57
10	The Globe Newspaper Co. ....	Publishing advertisements .....	5.00
10	Chicago Herald Co. ....	do .....	11.00
10	St. Louis Republic .....	do .....	8.00
10	The Boston Herald Co. ....	do .....	5.50
10	Kansas City Times Newspaper Co. ....	do .....	6.60
10	The Kansas City Star .....	do .....	4.00
10	Harvey L. Goodall .....	do .....	3.00
10	Alvord H. Rose .....	Office expenses, May .....	1.00
10	The Lawyers' Cooperative Publishing Co. ....	United States Supreme Court reports, etc .....	6.00
10	W. H. Rose .....	Office expenses, May .....	9.75
10	New England Telephone and Telegraph Co. ....	Telephone rent, Boston, May .....	10.00
10	Bay State Clean Towel Furnishing Co. ....	Towel supply, Somerville, May .....	10.92
10	B. Westermann & Co. ....	Books and periodicals .....	19.56
10	James Stikeman .....	Office rent, New York, May .....	45.83
10	J. N. Wittpenn .....	Salary and expenses, May .....	156.95
10	Wm. B. E. Miller .....	Office expenses, May .....	2.76
10	do .....	Salary and expenses, May .....	198.40
10	Thomas Manufacturing Co. ....	Meat-inspection tags .....	17.75
10	do .....	do .....	42.60
10	E. J. Brooks & Co. ....	Car seals and wires .....	36.25
10	do .....	do .....	87.00
12	Chas. E. Collins .....	Salary and expenses, May .....	154.50
12	The Office Toilet Supply Co. ....	Use of toilet supplies, Chicago, May .....	7.53
12	Edward Morris .....	Office rent, Chicago, May .....	133.33
12	Thos. W. Oshel .....	Salary for May .....	102.20
12	Perry Hodgden .....	do .....	102.20
12	W. H. Gibbs .....	Salary and expenses, May .....	103.45
12	Anderson M. Hunter .....	Salary for May .....	119.20
12	D. M. Ward .....	do .....	119.20
12	Joseph Bruser .....	do .....	119.20
12	Alexander Lobb .....	Salary and expenses, May .....	122.05
12	Albert Hassall .....	Salary and expenses, May 2-23 .....	2.55
12	F. L. Kilborne .....	Traveling expenses .....	25.20
12	L. H. Hopkins .....	Knives .....	1.35
12	Geo. N. Holland .....	Rat traps, etc .....	4.85
12	Minnis & Martyn .....	Repairing gutters on stable, etc. ....	8.90
12	A. M. Bauer .....	Rods for windmill .....	1.65
12	F. H. Spengen .....	Room rent, Jersey City, May .....	50.00
12	Church & Stephenson .....	Lumber .....	6.42
12	Z. D. Gilman .....	Flasks, chemicals, etc .....	68.77
13	Union Stock Yards and Transit Co. ....	Office rent, Chicago, May .....	15.00
13	Samuel H. Pierce .....	Salary and expenses, May .....	166.20
13	Samuel W. Campbell .....	do .....	179.15
13	B. A. Pierce .....	do .....	185.96
13	Chicago Telephone Co. ....	Telephone service, Chicago, May .....	10.42
13	A. D. Melvin .....	Salary and expenses, May .....	306.00
13	David Parker .....	do .....	149.20
13	J. T. Claris .....	Office rent, Buffalo, May .....	10.00
13	do .....	Salary and expenses, May .....	218.72
13	D. Cumming .....	Salary for May .....	35.01
13	Chas. A. Wilcox .....	do .....	102.20
13	Charles F. Nesbit .....	do .....	102.20
13	Joseph Hawkins .....	do .....	119.20
13	De N. Jewett .....	do .....	102.20

Expenditures Department of Agriculture for fiscal year ending June 30, 1893—Cont'd.

## BUREAU OF ANIMAL INDUSTRY—Continued.

Date.	Name.	Nature of payment.	Total.
1893.			
June 13	Edward Story	Salary for May	\$136.20
13	Henry B. Ambler	do	153.40
13	T. L. Armstrong	do	198.40
13	Charles R. Talbert	Oats, bran, etc.	75.62
14	Julius Huelsen	Office expenses, May	2.45
14	International Clean Towel Co.	Towel supply, Buffalo, May	6.69
14	St. Louis National Stock Yds.	Rent of rooms, New York City, May	50.00
14	Davenport Fisher	Office expenses, May	2.80
14	Campbell & Gregg	Toilet supplies in Milwaukee, May	4.50
14	John Broderick	Office rent, New York City, May	16.00
14	A. D. Melvin	Office expenses, May	24.07
14	John B. Sine	Salary and expenses, May	147.20
14	James Wilson	Office expenses, May	2.00
14	Evans Laundry Co	Toilet supplies, South Omaha, May	2.25
14	A. C. Raymer	Keg posting tacks, etc.	19.05
14	C. A. Melcher	Varnish, sponges, etc.	25.25
14	J. R. Kelley	Horse hire, South Omaha, May	40.00
14	Packers' National Bank	Rent of rooms, South Omaha, May	45.00
14	A. C. Fulkerson	Towel supply, Kansas City, May	9.56
14	Charles E. Gragg	Office expenses, May	11.90
14	F. A. Walcker	One keg tacks	12.50
14	G. W. Tourtellot	Rent of rooms, Kansas City, May	50.00
14	The U. S. Electric Lighting Co.	Electric lights, laboratory, May	12.00
15	Mary Jetter	Salary as janitress and box-cleaner	25.00
15	E. C. Matheny	Salary for May	102.20
15	Otis E. Schilder	Salary and expenses, May	126.15
15	James Irwin	do	135.50
15	Howard Rhoads	do	241.17
15	S. E. O'Neill <i>et al.</i>	Salaries for May	486.53
16	Geo. C. Faville	Salary, June 1-15	103.02
16	S. W. McGrew	Office expenses, May	7.20
16	John Nesbit	Rent of office, E. St. Louis, May	10.00
16	Annie L. Richards, administratrix	Rent of office, Boston, Mass	40.00
16	Theobald Smith	Meat, eggs, etc., for culture work	2.19
17	J. F. Ryder	Salary and expenses, May	299.02
17	W. H. Wray	do	437.41
17	C. H. Hanson	Rubber stamp, pad, etc.	2.75
17	Chas. O. Brockway	Hog rings, etc.	6.17
17	Rand, McNally & Co	Pads, pens, tags, etc.	19.90
17	John Warrack	Drayage on tags and seals	2.00
17	H. B. Fisher & Bros	Varnish and turpentine	3.25
17	Geo. C. Faville	Office expenses, May	1.25
17	Alex. Yearley & Son	Office rent, Baltimore, May	10.00
17	Ed. R. Allen	Office expenses, May	.95
17	A. O. Stoeltzing Stove and Hardware Co.	Tacks	12.75
17	The New York and New Jersey Telephone Co.	Exchange rental, Jersey City, May	16.95
17	James T. Stuart <i>et al.</i>	Salaries for May	932.73
17	C. Becker	Horse-collar pad, etc.	2.95
17	L. H. Hopkins	Two saws	3.65
17	Office Specialty Manufacturing Co.	Filing cabinet	108.00
17	Victor A. Norgaard	Five clinical thermometers	6.50
17	do	Traveling expenses	24.92
19	Henry S. Vanderhoff	Salary, June 1-15, inclusive	65.93
19	Albert Dean	Salary and expenses, May	179.65
19	Albert H. Hoyt <i>et al.</i>	do	365.20
20	United States Express Co.	Expressage	8.95
21	The Evening Journal Association.	Advertising furniture sale	1.60
21	Joseph E. Sawtell	Salary and expenses, May	64.90
21	Edward Shelden	do	125.50
21	Jacob Klotz	do	316.60
21	C. A. Wales <i>et al.</i>	Salaries for June	124.34
21	W. D. Robbins <i>et al.</i>	Salaries for May	383.33
21	Amelia Barthels <i>et al.</i>	do	424.48
21	James Wilson <i>et al.</i>	do	1,154.80
21	T. A. Geddes <i>et al.</i>	Salaries for June	201.92
21	M. A. Atwood <i>et al.</i>	do	346.22
22	Wm. Somerville, jr	Office expenses, May	1.00
22	South Omaha Electric Light, Heat, and Power Co.	Electric lights for May	2.60
22	Metropolitan Telephone and Telegraph Co.	Telephone rent, New York City, May	20.30
22	Adams Express Co.	Expressage	10.00
24	Metropolitan Telephone and Telegraph Co.	Telephone rent, New York City, May	22.70

*Expenditures Department of Agriculture for fiscal year ending June 30, 1893—Cont'd.*

## BUREAU OF ANIMAL INDUSTRY—Continued.

Date.	Name.	Nature of payment.	Total.
1893.			
June 24	Thomas Manufacturing Co	Meat-inspection tags	\$294.65
24	S. W. McGrew <i>et al.</i>	Salaries for May	615.45
27	Wyckoff, Seamans & Benedict	Adjusting typewriter	.50
28	May Bouen <i>et al.</i>	Salary, June 1 to 15	179.26
28	E. A. v. Schweinitz	Meat for culture media	3.75
29	Baltimore and Ohio R. R. Co.	Transporting one box	3.26
29	Ohio and Mississippi Rwy. Co.	Transporting three cases paper tags	23.15
30	Henry Casson	Salary for June	208.00
30	D. E. Salmon	Additional compensation, April 1 to June 30	250.00
30	D. E. Salmon <i>et al.</i>	Salaries for June	5,139.69
	Amount of vouchers in quarter, Bureau of Animal Industry.		167,866.43
	Amount of vouchers in quarter, Bureau of Animal Industry, rent.		300.00
	Amount of vouchers in quarter, swine plague.		1,442.05
	Total fourth quarter		169,608.48
	<i>Supplemental.</i>		
July 1	Lake Gas Co	Gas, Chicago, May 18 to June 16	2.88
1	D. W. Vickrey	Saddle, bridle, etc	27.75
1	H. D. Mayne	Salary and expenses four days in May	23.75
1	H. J. Ruppert	Rent of land, Bennings Road, June	41.74
1	Thomas Manufacturing Co	Meat-inspection tags	71.00
3	Hermann Oldenburg	One bay mare	25.00
3	Leonard Dean	do	30.00
3	Solomon Walls	One sorrel mare	30.00
3	J. B. Thomas	One bay mare	35.00
3	Jacob Forret	One dun mare	40.00
3	Joseph A. Bogardus	Two dozen hog ringers	5.50
3	Annie L. Richards, administratrix of the estate of C. L. Richards	Office rent, Boston, June	40.00
5	Washington Gaslight Co	Gas for laboratory, June	17.50
6	The Washington Post Co	Publishing proposals for rent of rooms	4.81
6	A. W. Clement <i>et al.</i>	Salaries for June	563.70
6	Edward H. Flood <i>et al.</i>	do	628.69
6	Julius Huelson <i>et al.</i>	do	635.34
6	R. W. Hickman <i>et al.</i>	do	802.49
6	W. H. Rose <i>et al.</i>	do	1,052.20
6	John Michels <i>et al.</i>	do	1,401.84
6	A. Hoen & Co	Meat inspection tags	1,250.00
6	E. J. Brooks & Co	Car seals and wires	725.00
6	Thomas Manufacturing Co	Meat inspection tags	106.50
6	Bausch & Lomb Optical Co	Repairing three microscopes	14.50
6	B. Westermann & Co	Medical books and magazines	7.40
6	Chicago, Rock Island and Pacific Rwy. Co.	Transporting lead seals	7.42
7	The Missouri Pacific Rwy Co	Transporting E. Sheldon, Nebraska City to Gordon	13.25
8	E. Balzer <i>et al.</i>	Salaries for June	1,771.94
8	Norman R. Adams <i>et al.</i>	do	2,145.95
8	Lewis R. Baker <i>et al.</i>	do	2,520.70
10	James H. Logan <i>et al.</i>	do	283.46
10	W. D. Robbins <i>et al.</i>	do	329.52
10	S. Stewart <i>et al.</i>	do	418.25
10	Amelia Barthels	do	445.42
10	David Parker	do	463.80
10	James J. Brougham <i>et al.</i>	do	474.60
10	Wm. H. Way <i>et al.</i>	do	632.80
10	William Somerville, Jr., <i>et al.</i>	do	1,022.26
10	Davenport Fisher <i>et al.</i>	do	1,025.50
10	Dighton Granger <i>et al.</i>	do	785.20
11	Ed. R. Allen <i>et al.</i>	do	1,062.66
11	D. R. Krehbiel <i>et al.</i>	do	1,547.51
11	Amount of vouchers to July 12, Bureau of Animal Industry.	Rent, June	100.00
18	A. K. Robertson	Salary and expenses, June	272.15
18	John Doris <i>et al.</i>	Salaries for June	253.80
18	Thomas E. Stuckey <i>et al.</i>	do	363.00
18	S. B. O'Neill <i>et al.</i>	do	506.50
18	J. H. Honan <i>et al.</i>	do	804.10
18	John Forbes <i>et al.</i>	do	827.50
18	S. W. McGrew <i>et al.</i>	do	830.42
18	C. J. Sikler <i>et al.</i>	do	1,749.36
19	J. T. Claris	Salary and expenses, June	167.82

Expenditures Department of Agriculture for fiscal year ending June 30, 1893—Cont'd.

## BUREAU OF ANIMAL INDUSTRY—Continued.

Date.	Name.	Nature of payment.	Total.
1893.	<i>Supplemental—Continued.</i>		
July 19	J. T. Claris.	Office rent, Buffalo, June.	\$10.00
19	J. F. Ryder.	Salary and expenses, June	290.30
19	W. H. Wray	do	421.20
19	C. W. Handley	Cartage, Chicago	10.00
19	Alexander H. Revell & Co	Ice box	12.00
19	Herman W. Bernard.	Salary, Mar. 1-19	95.00
19	Edward Morris	Office rent, Chicago, June	133.33
19	E. J. Brooks & Co.	Car seals and wires	1,450.00
19	Bay State Clean Towel Furnishing Co.	Towel supply, June	7.32
19	Francis Doane & Co	Chamois skins, etc.	10.40
19	A. C. Raymer.	1 hatchet	1.75
19	H. B. Fisher & Bros	1 gallon dammar varnish	2.50
19	Davenport Fisher.	Office expenses, June	3.00
19	Campbell & Gregg	Toilet supply, Milwaukee, June	4.50
19	The Metropolitan Telegraph and Telephone Co.	Telephone rent, amount toll service, June	20.90
19	James Stikeman	Office rent, New York, June	45.83
19	Daniel Cameron.	Paste	2.00
19	Evans Laundry Co.	Towel supply, South Omaha, June	2.25
19	J. A. Doe.	Ice for June	3.75
19	C. A. Melcher	5 gallons varnish, etc.	17.35
19	Packers' National Bank	Rent of rooms, South Omaha, June	45.00
19	J. C. McNeil	Office expenses, May	.20
19	do	Expenses for May	3.78
19	R. W. Heckman.	Office expenses, New York, June	.75
19	Howard Wilson	Labeling compound	2.50
19	John Broderick	Office rent, New York, June	16.00
19	Leipsner & Mathews	Dating stamp, etc.	5.90
19	A. O. Steltzing	Tacks, brooms, maps, etc.	11.95
19	Edmund T. Hooker	Salary and expenses, May 1 to 6, inclusive.	27.78
19	Chas. E. Collins	Salary for June	128.00
19	W. E. Hill	do	153.22
19	Philip H. Moore.	do	158.65
19	William D. Jordan	Salary for May	196.65
19	do	Salary for June	190.05
19	John C. Parker.	Index card to order	13.50
20	Z. D. Gilman	One-half dozen Hick's thermometers	10.25
20	do	Combination locks, etc.	18.62
20	John C. Parker.	Library index cards, etc.	25.50
20	Annie Burnett.	Washing towels, Jan. 1 to June 30	5.70
20	U. S. Electric Lighting Co	Electric lights, June	12.00
20	Ellen T. Keane	Rent of land, "Long Meadow," Apr. 1 to June 30	135.00
20	Chas. A. Wilcox.	Salary for June	98.90
20	De N. Jewett	do	98.90
20	Henry B. Ambler	Salary and expenses for June	156.35
20	James Irwin	Salary for June	115.40
20	Edward Shelden	Salary and expenses, June	128.25
20	Edward Story	Salary for June	131.90
20	John Nesbitt	Office rent, St. Louis, June	10.00
20	E. C. Matheny	Salary for June	98.90
20	D. W. Moffatt	One mare killed, maladie du coit	20.00
20	Ludwig Danne	do	25.00
20	Jacob C. Rexroth	do	30.00
20	Wm. Bell.	do	35.00
20	Geo. C. Faville.	Salary and expenses, June 16 to 30, inclusive.	136.52
20	Griffin & Connelly	Ice, Chicago, May 8 to 31, inclusive.	3.63
20	Paul Rieser.	Repairing boxes, stoves, etc.	4.50
20	The Office Toilet Supply Co.	Toilet supply, Chicago, June	6.47
20	Chicago Telephone Co.	Telephone services, Chicago, June	10.42
20	Atlas Tack Corporation	Upholstering tacks	11.50
20	A. D. Melvin	Salary and expenses, June	251.00
20	Perry Hodgden	Salary for June	98.90
20	Otis E. Sadler	do	98.90
20	W. H. Gibbs	Salary and expenses, June	101.75
20	D. M. Ward.	do	115.40
20	Jos. Benser.	do	115.40
20	Alexander Lobb.	do	118.25
20	Albert Dean	do	166.40
20	A. W. Clement	Office expenses, June	2.50
20	Alex. Gearley & Son.	Office rent, Baltimore, June	10.00
20	The Chesapeake and Potomac Telephone Co.	Telephone rent, Apr. 1 to June 30	25.00
20	Charles F. Nesbit.	Salary for June	98.90
20	Union Stock Yards and Transit Co.	Office rent, Chicago, June	15.00
20	B. A. Pierce	Salary and expenses, June	137.37

*Expenditures Department of Agriculture for fiscal year ending June 30, 1893—Cont'd.*

BUREAU OF ANIMAL INDUSTRY—Continued.

Date.	Name.	Nature of payment.	Total.
1893.	<i>Supplemental—Continued.</i>		
July 20	S. W. Campbell	Salary and expenses, June	\$167.16
20	W. S. Devoe	do	323.52
20	do	Expenses for May	21.15
20	Missouri, Kansas and Texas Rwy. Co.	Transporting W. D. Jordan, Fort Worth to San Antonio, Tex.	8.35
20	Ed. R. Allen	Office expenses	.50
20	Julius Huelsen	do	3.41
20	M. L. Young	Salary for the 30th of June	5.00
20	Atlas Tack Corporation	50 lbs. tacks	5.75
20	F. S. Worcester	Kalsomining 2 rooms	8.40
20	H. D. Mayne	Salary and expenses in June, 3 days	18.85
20	D. Cumming	Salary and expenses 4 days in June	20.00
20	The Bell Telephone, of Philadelphia.	Telephone exchange, Apr. 1 to June 30	30.00
20	St. Louis National Stock Yards	Room rent, National Stock Yards, June	50.00
20	Ohio and Mississippi Rwy. Co.	Transporting paper stamps	3.80
20	G. W. Ward	Salary and expenses 10 days in June	41.75
20	Chas. Cowie	Salary and expenses 1 day in June	5.00
20	South Omaha Electric Light and Heat and Power Co.	Electric light, June	3.05
20	Hygienic Ice Co.	Ice from March to June 30	9.46
20	S. S. Daish & Son	Meal, middlings, etc.	82.73
20	Geo. W. Knox Express	Freight	7.54
20	Theobald Smith	Expenses for Laboratory	1.57
20	The Chesapeake and Potomac Telephone Co.	Exchange rental	78.41
24	W. H. Rose	Office expenses for June	9.75
24	Edward H. Flood	do	4.69
24	International Clean Towel Co.	Towel supply, Buffalo, June	4.26
24	Joseph Hawkins	Salary for June	115.40
24	J. H. Honan	Office expenses, June	26.40
24	Daniel D. Lee	Salary for June	206.00
24	New England Telephone and Telegraph Co.	Exchange rental, June	10.00
24	James T. Stuart <i>et al</i>	Salaries for June	948.45
24	do	Office expenses, June	2.93
24	A. D. Melvin	do	46.81
24	Pennsylvania R. R. Co.	Transporting Geo. C. Faville, Baltimore to Chicago.	17.00
24	Adams Express Co.	Transporting packages	12.25
25	S. W. McGrew	Office expenses, June	1.85
25	A. C. Fulkerson	Towel supply, Kansas City, June	9.36
25	G. W. Tourtellot	Rent of rooms, Kansas City, June	45.00
25	Evan H. Pritchard	Salary for June	185.40
25	Howard Rhoads	Salary and expenses, June	160.92
25	E. L. Siggins <i>et al</i>	Salaries for June	1,020.93
25	James Wilson <i>et al</i>	do	1,125.90
25	W. P. Cutler <i>et al</i>	do	475.24
25	W. P. Cutler	Office expenses, June	1.60
27	United States Express Co.	Expressage	6.00
27	Chicago, Rock Island and Pacific Rwy. Co.	Freight on 2 boxes tags	3.05
27	E. J. Brooks & Co.	Car seals and wires	507.50
31	do	do	489.38
31	Evan H. Pritchard	Office expenses, June	1.65
31	Daniel D. Lee	do	7.20
31	Manning M. Abbott	1 mare killed, maladie du coit	15.00
31	Griffin & Connelly	Ice for June	4.75
Aug. 14	J. R. Kelly	Horse hire, June 1-18	24.00
9	The Metropolitan Telephone and Telegraph Co.	Telephone rent and toll, June	20.35
9	The Chicago and Ohio Rwy. Co.	Transportation, Washington, D. C., to Little Rock.	27.90
14	The Missouri Pacific Rwy. Co.	Transporting E. Sheldon	13.25
14	Fremont, Elkhorn and Missouri Valley R. R. Co.	do	13.25
16	Richmond and Danville R. R. Co.	Transporting V. A. Norgaard	41.05
24	Ohio and Mississippi Rwy. Co.	3 cases paper tags	8.13
30	James Condon	9 days' salary between 1st and 31st of May	17.80
31	Theobald Smith	Dinners, May and June	4.45
Sept. 7	Vandalia Line	Transporting lead seals, May	10.66
13	Victor A. Norgaard	Expenses in June	34.75
Oct. 3	B. Westerman & Co.	Foreign publications	33.00
13	Hannibal and St. Louis R. R. Co.	Freight transportation, April, 1893	12.28
13	do	Freight transportation	11.27
	Transportation orders		50.53
	Public Printer		8,855.21
	Total supplemental		50,125.72

Expenditures Department of Agriculture for fiscal year ending June 30, 1893—Cont'd.

## BUREAU OF ANIMAL INDUSTRY—Continued.

## RECAPITULATION.

Total first quarter	\$115,153.23
Total second quarter	178,545.30
Total third quarter	206,734.92
Total fourth quarter	169,608.48
Supplemental	50,125.72
<b>Total</b>	<b>720,167.65</b>

## QUARANTINE STATIONS.

Date.	Name.	Nature of payment.	Total.
1892.			
July 31	R. G. Blaine	Salary for July	\$168.50
Aug. 8	Alvord H. Rose	Salary and expenses for July	215.01
8	John Hume	Salary for July	60.60
9	R. G. Blaine	Expenses for July	31.80
17	Robt. L. Ewing	Salary and expenses for July	75.80
17	Wm. Herbert Lowe	do	159.47
17	Andrew C. Osborn	Salary for July	60.60
17	Alonzo Butterworth	do	60.60
17	W. O. Bush	Feed and supplies	43.93
17	E. E. Ackerman	Sawdust	2.50
20	W. O. Bush	Feed, etc.	91.25
20	Wm. M. Swartz	Photographs of sheep	15.00
23	Boston Herald Co	Advertising	5.50
31	R. G. Blaine	Salary for August	168.50
Sept. 2	James Whitty	Services in taking Persian sheep to California	24.00
6	John Hume	Salary for August	60.60
6	Alvord H. Rose	Salary and expenses in August	218.92
14	Andrew C. Osborn	Salary for August	60.60
14	Wm. Herbert Lowe	Salary and expenses in August	161.31
14	Alonzo Butterworth	Salary for August	60.60
16	Robert L. Ewing	do	75.80
30	R. G. Blaine	Salary for September	163.00
	<b>Total first quarter</b>		<b>1,983.89</b>
Oct. 13	Alvord H. Rose	Salary and expenses, September	206.63
13	John Hume	Labor, September	58.80
13	The New York and New Jersey Telephone Co.	Telephone rent, July 1 to Sept. 30	18.75
13	Alonzo Butterworth	Labor, September	58.80
13	Andrew C. Osborn	do	58.80
13	Wm. Herbert Lowe	Salary and expenses, September	150.94
14	Robt. L. Ewing	Salary, September	73.40
17	The Garfield Land Association	Land rent, July 1 to Sept. 30	450.00
31	R. G. Blaine	Salary for October	168.50
	<b>Total second quarter</b>		<b>3,314.62</b>
Dec. 5	Alvord H. Rose	Salary and expenses, October	210.54
5	John Hume	do	58.80
6	W. O. Bush	Feed and coal	54.25
10	Wm. Herbert Lowe	Salary and expenses, November	158.33
10	Andrew C. Osborn	Labor, November	58.80
10	Alonzo Butterworth	do	58.80
13	Robert L. Ewing	Salary for November	73.40
29	J. A. Harwood and H. J. Harwood	Traveling expenses in September and November	13.00
30	R. G. Blaine	Salary for November	163.00
	<b>Total second quarter</b>		<b>29.06</b>
1893.			
Jan. 5	The Garfield Land Association	Land rent, Oct. 1 to Dec. 31	450.00
10	John Hume	Labor for December	60.60
10	Alonzo Butterworth	do	60.60
10	Andrew C. Osborn	do	60.60
10	Wm. Herbert Lowe	Salary and expenses for December	163.72
10	Alvord H. Rose	do	215.76
13	Joshua Williams	Labor in December	7.00
13	Robert L. Ewing	Salary for December	75.80

*Expenditures Department of Agriculture for fiscal year ending June 30, 1893—Cont'd.*

QUARANTINE STATIONS—Continued.

Date.	Name.	Nature of payment.	Total.
1893.			
Jan. 26	The New York and New Jersey Telephone Co.	Telephone rent, Garfield, N. J., Oct. 1 to Dec. 31.	\$18.75
31	R. G. Blaine	Salary for January	172.20
Feb. 9	Alvord H. Rose	Salary and expenses for Jauuary	219.71
9	John Hume	Labor for January	62.00
9	Alonzo Butterworth	do	62.00
9	Andrew C. Osborn	do	62.00
9	Wm. Herbert Lowe	Salary and expenses for January	166.81
11	News Publishing Co	Advertising, January	2.25
14	Robert L. Ewing	Salary for January	77.50
14	Baltimore and Ohio R.R. Co	Rent of land, July 1 to Dec. 31, 1892	112.50
14	A. M. Farrington	Expenses, Dec. 2, 1892, to Jan. 31, 1893	14.53
28	R. G. Blaine	Salary for February	155.60
Mar. 7	Philip H. Lenderking	Zinc pans, etc.	10.00
13	John Hume	Labor, February	56.00
13	Alvord H. Rose	Salary and expenses, February	197.23
13	Robert L. Ewing	Salary for February	70.00
14	Alonzo Butterworth	Labor for February	56.00
14	Andrew C. Osborn	do	56.00
14	Wm. Herbert Lowe	Salary and expenses for February	158.50
16	Albert Hassall	Traveling expenses, Dec. 15 and 22	3.57
30	J. A. Harwood	Land rent, Littleton, Mass., July 1 to Dec. 31, 1892	100.00
31	R. G. Blaine	Salary for March	172.20
	Total third quarter		3,099.51
Apr. 11	John Hume	Labor for March	62.00
11	Alvord H. Rose	Salary and expenses for March	219.71
14	Quandt Brothers	Chloride of lime	5.00
15	The Garfield Land Association	Land rent, Jan. 1 to Mar. 31, 1893	450.00
17	Frank J. Illig	Hardware	11.04
17	William H. Wade	Salary, Mar. 9 to 31	57.50
17	New York and New Jersey Telephone Co.	Telephone rent, Jan. 1 to Mar. 31	18.75
17	Andrew C. Osborn	Labor, March	62.00
17	Alonzo Butterworth	do	62.00
17	Wm. Herbert Lowe	Salary and expenses, March	167.45
17	R. G. Blaine	Salary, Apr. 1 to 15	82.42
20	John W. Craig, jr.	Repairing pump	10.00
20	David F. Stone	Labor in March and April	12.50
25	Thomas Farthing	Rent of stable, Buffalo, March	25.00
28	J. A. Harwood and H.J. Harwood	Rent of land, Littleton, Mass., Oct. 16 to Apr. 15	150.00
May 1	Robert H. Hughes, executor	Salary of Robt. L. Ewing, Mar. 1 to 6	15.00
1	Chas. A. Flack	Water pipes, etc.	6.98
10	John Hume	Labor for April	59.30
10	Alvord H. Rose	Salary and expenses for April	209.66
10	Wm. H. Wade	do	74.20
10	Frank Orbenoski	Hauling, April	12.00
12	Andrew C. Osborn	Labor for April	59.30
12	Alonzo Butterworth	do	59.30
12	Wm. Herbert Lowe	Salary and expenses for April	64.45
13	Thomas Farthing	Rent of stable, April	25.00
15	R. G. Blaine	Salary, Apr. 16 to May 15	164.84
June 6	Thacher & Ireland	Shingles	5.00
6	Geo. Preist	Posts, etc.	18.00
6	C. P. Küssella	Carbolic acid	.90
6	Ch. Hubinger	Hardware	7.77
6	W. O. Bush	Feed	72.43
12	Albert Hassall	Traveling expenses, May 6 to 20	5.55
12	Alvord H. Rose	Salary for May	213.00
12	John Hume	do	61.40
13	Wm. Herbert Lowe	do	159.20
13	Alonzo Butterworth	do	61.40
13	Andrew C. Osborn	do	61.40
13	Thomas Farthing	Rent of stable for May	25.00
17	Wm. H. Wade	Salary for May	76.60
	Total fourth quarter		3,013.05
	<i>Supplemental.</i>		
July 3	J. A. Harwood	Land rent, Littleton, Mass., Jan. 1 to June 30	100.00
3	Garfield Land Association	Land rent, Garfield, N. J., Apr. 1 to June 30	450.00
18	Wm. H. Wade	Salary for June	74.20
18	Andrew C. Osborn	do	59.30

Expenditures Department of Agriculture for fiscal year ending June 30, 1893—Cont'd.

## QUARANTINE STATIONS—Continued.

Date.	Name.	Nature of payment.	Total.
<i>Supplemental—Continued.</i>			
1893.			
July 18	New York and New Jersey Telephone Co.	Telephone rent Apr. 1 to June 30	\$18.75
18	Alonzo Butterworth	Salary for June	59.30
19	John Hume	do	59.30
20	Thomas Farthing	Rent of stable, June	25.00
21	Albert Hassall	Traveling expenses, June	1.90
22	A. M. Farrington	Traveling expenses in May and June	4.81
24	Wm. Herbert Lowe	Salary and expenses for June	153.85
24	August Eidman	Repairing water pipes	25.00
25	Baltimore and Ohio R. R. Co.	Land rent, Jan. 1 to Mar. 1, 1893	56.25
25	Oden A. Lowman	Services in June	13.50
Oct. 2	J. A. Harwood and H. J. Harwood.	Land rent, Apr. 16 to June 30, 1893	62.50
	Total		1,163.66

## RECAPITULATION.

First quarter		\$1,983.89
Second quarter		3,314.62
Third quarter		3,099.51
Fourth quarter		3,013.05
Supplemental		1,163.66
Total		12,574.73

## EXPERIMENTS IN THE MANUFACTURE OF SUGAR.

Date.	Name.	Nature of payment.	Total.
<i>1892.</i>			
July 31	D. C. Sutton	Salary for July	\$101.10
31	Walter Maxwell	do	151.60
Aug. 2	C. I. Hinman	do	101.10
3	The George L. Squire Manufacturing Co.	Cane mills	160.00
3	George Selzer <i>et al.</i>	Labor in July	88.61
6	B. E. Wadsworth	Services self and team in July	15.00
6	C. I. Hinman	Livery, July	24.00
6	Albert Hada	Services self and team in July	30.00
6	Joe Clemmings <i>et al.</i>	Labor, July 16 to 31, inclusive	40.00
6	C. B. Edson	Salary, July	84.20
8	Wells & Nieman	Teamster and team in July	15.62
8	Mrs. J. E. Lapache	Office rent, Schuyler, Nebr., July	16.00
8	Fred Weaver	Hire of horse and buggy, July	30.00
10	C. R. Howard & Co.	Lithum paper, etc.	2.25
10	Showl Bros.	Brasses for engine	2.50
10	Alice E. Clements	Rent of laboratory, Sterling, Kans., July	7.50
10	Irish & Quigley	Lumber	22.20
10	J. Hanna	Hardware, etc.	77.37
10	A. A. Denton	Salary for July	101.10
11	Hamilton Pollock <i>et al.</i>	Labor for July	421.88
12	C. I. Hinman	Freight and drayage	4.20
16	Jacob A. Pence	Hardware	6.15
17	Chas. J. Safarik	Paris green	2.70
17	Walter Maxwell	Expenses in July	71.60
17	Eli Benedict <i>et al.</i>	Labor, July	118.50
17	Glen O'Brien	Porter steam evaporator	125.00
17	Frank Lawhead	Brick, Sterling, Kans.	5.00
20	A. L. Duncan <i>et al.</i>	Labor, July	345.00
22	Joe Clemmings <i>et al.</i>	Labor, Aug. 1 to 15	42.25
22	do	Labor in July, 1 to 15	38.00
24	Clarkson Bros.	Advertisements, August	3.60
25	W. H. Hurd	do	9.00
26	Oma Carr	Expenses, Washington to Indianapolis, August	4.50
30	Goodman Drug Co.	Paris green	4.00
31	John L. Felling	Salary, Aug. 15 to 31, inclusive	83.15
31	D. C. Sutton	Salary for August	101.10
31	Oma Carr	Salary, Aug. 18 to 31, inclusive	83.15
31	Walter Maxwell	Salary for August	151.60
31	Edward Lamhofer	Paris green, etc.	7.20
Sept. 3	Mrs. J. E. Lapache	Rent of rooms, Schuyler, Nebr.	16.00
3	Fred Weaver	Hire of horse and buggy, August	30.00
3	C. J. Hinman	Salary, August	101.10

Expenditures Department of Agriculture for fiscal year ending June 30, 1893—Cont'd.

## EXPERIMENTS IN THE MANUFACTURE OF SUGAR—Continued.

Date.	Name.	Nature of payment.	Total.
1892.			
Sept. 5	Walter Maxwell	Expenses for August	\$47.90
5	George Selzer <i>et al.</i>	Labor in August	107.25
5	R. F. Lang	1 bale of beet seeds	2.85
7	C. B. Edson	Salary for August	84.20
9	Edward Lamhofer	Paris green, etc.	2.00
9	Wells & Nieman	Hire of team	28.75
9	J. W. Stewart	Lumber, etc.	51.51
9	Jacob A. Pence	Wash tubs, etc.	8.70
10	J. Y. Gilmore	Advertising, July 30	5.00
10	Ripley Cider Purifying Co.	Materials furnished, August	4.75
10	Alice E. Clement	Rent of building, August	7.50
10	Badger Lumber Co.	Fencing, etc.	8.88
10	C. I. Hinman	Expenses in August	21.00
10	C. A. Carson	Oats, beans, etc.	57.13
10	Louisiana Planter and Sugar Manufacturing Co.	Advertising	10.88
12	John C. Parker	Blank books, etc.	43.83
13	O. Dewalt <i>et al.</i>	Salaries for August	434.35
15	Oma Carr	Expenses in August	14.25
15	T. C. Trescot	Expenses in September	15.25
15	Kate Lammiman <i>et al.</i>	Salaries for August	452.16
15	E. K. Porter	Land rent, Sterling, July 1 to Nov. 1	5.32
15	do	do	33.96
15	Z. D. Gilman	Jars, flasks, etc.	110.00
15	John M. Williams	Hauling	.25
16	Pennsylvania R. R. Co.	Transportation, Carr <i>et al.</i> , August	32.00
16	Seaton Perry	Towels	13.92
16	Adams Express Co.	Transportation in July	3.75
17	H. W. Wiley	Traveling expenses, September	9.75
19	Z. D. Gilman	Jars, filter paper, etc.	413.98
19	do	do	692.43
19	C. I. Hinman	Expenses in August	14.62
22	R. J. Shay	Buckets, etc.	4.55
22	C. R. Howard & Co.	Drugs and chemicals	24.90
22	J. Hanna	Hardware, etc.	149.61
24	Irish & Quigley	Lumber, etc.	37.39
24	Asa Campbell <i>et al.</i>	Labor, Sept. 1 to 17	740.78
27	M. B. Clement <i>et al.</i>	Labor, August	146.50
27	Kate Lammiman	Services, teamsters and teams, July	285.00
30	Fremont, Elkhorn and Missouri Valley R. R. Co.	Transportation, Maxwell, August	2.20
30	A. M. Parsons	Cans and jugs	7.85
30	D. C. Sutton	Salary for September	97.80
30	Joe Clemmings <i>et al.</i>	Labor in August	26.00
30	do	Labor, Sept. 1 to 15	26.00
30	Oma Carr	Salary for September	146.80
30	Walter Maxwell	do	146.80
30	T. C. Trescot	do	146.80
30	Jno. L. Fuelling	do	146.80
	Total first quarter		7,718.73
Oct.			
1	C. B. Edson	Salary for September	81.60
1	C. I. Hinman	do	97.80
3	Adams Express Co.	Transportation in August	137.50
4	The Norris Peters Co.	Photolithographing, etc.	10.00
4	Eimer & Amend	Sucrose pipettes	6.25
4	Mrs. J. E. Lapache	Office rent, September, Schuyler, Nebr.	16.00
4	Fred. Weaver	Hire of horse and buggy, September	30.00
4	George Selzer <i>et al.</i>	Labor for September	101.12
6	Walter Maxwell	Expenses in September	34.75
7	H. W. Wiley	Additional compensation, July 1 to Sept. 30	125.00
10	Joe Clemmings <i>et al.</i>	Labor in September	23.75
10	Z. D. Gilman	Flasks, etc.	63.99
10	Terre Haute and Indianapolis R. R. Co.	Transportation, Carr <i>et al.</i> , August	38.06
12	C. I. Hinman	Livery, September	26.00
13	J. L. Anderson	Coal	20.80
13	Wells & Nieman	Teamster and team, September	43.75
15	H. B. Newman	Land rent, July to Oct., 1892	13.33
15	J. Hanna	do	60.00
15	J. H. Ricksecker	do	58.33
15	William Fitzpatrick	do	70.00
15	Wm. Scheth	do	89.33
15	D. E. McVey	do	15.17
15	D. H. Bailey	do	8.00
15	R. J. Shay	do	3.33
20	Eimer & Amend	Sugar flasks, etc.	66.60
31	Jno. L. Fuelling	Salary for October	151.60

# EXPENDITURES IN DEPARTMENT OF AGRICULTURE. 107

*Expenditures Department of Agriculture for fiscal year ending June 30, 1893—Cont'd.*

## EXPERIMENTS IN THE MANUFACTURE OF SUGAR—Continued.

Date.	Name.	Nature of payment.	Total.
1892.			
Oct. 31	Oma Carr.	Salary for October.	\$151.60
Nov. 1	C. B. Edson	do	84.20
1	St. Louis and San Francisco Rwy. Co.	Freight charges, August	2.79
2	M. B. Clement	Salary, Oct. 15 to 31	55.43
2	Walter Maxwell	Salary for October	151.60
2	T. C. Trescot	do	151.60
3	Geo. Elliott <i>et al</i>	Labor in September	314.92
3	J. M. Evans <i>et al</i>	Labor, Oct. 1 to 15	507.90
4	Joe Clemmings <i>et al</i>	do	58.50
4	George Selzer <i>et al</i>	Labor for October	222.50
4	T. Campbell <i>et al</i>	Labor, Sept. 17 to 30	569.67
4	do	Labor, Oct. 1 to 17	670.38
7	Noble & Case	Farming implements	52.10
7	S. L. Allen	Tags and pencils	1.25
7	Romig & Pinkerton	Sharpening plows, etc.	9.65
7	C. I. Hinman	Livery, October	22.00
7	Day & Records	Chemicals	46.35
7	Chase & Allen	Hardware, etc.	46.86
7	Edward Lamhofer	Acid, brush, etc.	2.95
7	Mrs. J. E. Lapache	Office rent, October	16.00
7	E. Weaver	Teamster and team, Oct. 10 to 25	27.50
7	Fred. Weaver	Livery, October	30.00
7	Walter Maxwell	Expenses	31.00
7	Jacob A. Pence	Refrigerator, hardware, etc.	42.80
7	Wells & Nieman	Teamsters and team, October	67.50
7	S. L. Lupfer	Seed (rice)	6.00
7	Joe Clemmings <i>et al</i>	Labor, Oct. 16 to 31	63.75
7	D. C. Sutton	Salary for October	101.10
7	C. I. Hinman	do	101.10
8	M. B. Clément	Traveling expenses in October	63.60
8	Adams Express Co.	Transportation in September	11.65
9	The Geo. L. Squier Manufacturing Co.	Scrapers	1.50
10	Z. D. Gilman	Filters, labels, etc.	75.96
14	John C. Parker	Ledger paper and tags	19.35
16	C. L. Bramwell	Lumber	43.01
16	F. W. Berry	Services, self and team, July	60.00
17	S. A. Johnson, collector	Charges on machinery and seeds	1.65
18	Forsberg & Murray	Korting injector	43.50
23	C. B. Edson	Salary, Nov. 1 to 15	40.76
25	C. A. Carson	Feed	33.69
25	Joe Clemmings <i>et al</i>	Labor, Nov. 1 to 15	102.05
25	J. J. Dann	Repairing wagon, etc.	8.35
29	T. C. Trescot	Traveling expenses, November	15.25
30	D. C. Sutton	Salary for November	97.80
Dec. 2	The Atchison, Topeka and Santa Fe R. R. Co.	Transportation, Fuelling, October	20.25
2	T. C. Trescot	Salary for November	146.80
3	C. I. Hinman	do	97.80
5	M. B. Clement	do	97.80
5	Walter Maxwell	do	146.80
7	Joe Clemmings <i>et al</i>	Labor, Nov. 16 to 30	166.20
7	Oma Carr	Expenses in November and December	19.50
8	Collector of customs	Storage and blanks	.50
12	Adams Express Co.	Transportation, October	6.20
13	Chicago, Burlington and Quincy R. R. Co.	Freight charges on chemical glassware	2.48
13	Vandalia Line	Freight charges on sugar mill	4.36
14	Peter Denst	Hauling sugar cane	21.85
15	United States Express Co.	Transportation, November	12.08
16	George W. Knox Express	Freight on machinery	16.40
16	Pennsylvania Railroad Co.	Transportation, Spencer, October	28.00
16	Crane Company	Pulley and belts	25.47
21	Geo. W. Knox Express	Freight and drayage, November	2.29
22	L. M. Axline	Tickets for seed heads	2.00
30	Adams Express Co.	Transportation, November	3.95
31	D. C. Sutton	Salary for December	101.10
31	M. B. Clement	do	101.10
31	H. W. Wiley	Traveling expenses, December	11.05
31	do	Traveling expenses, Nov. 12 to 28	139.00
31	do	Traveling expenses, Oct. 10 to 26	148.60
	Total second quarter		6,940.76
1893.			
Jan. 9	Dippe Brothers	Sugar beet seed and bags	8.49
9	H. W. Wiley	Additional compensation, Oct. 1 to Dec. 31	125.00
10	W. S. Finney	Leather	.60

Expenditures Department of Agriculture for fiscal year ending June 30, 1893—Cont'd.

## EXPERIMENTS IN THE MANUFACTURE OF SUGAR—Continued.

Date.	Name.	Nature of payment.	Total.
1893.			
Jan. 10	L. Southworth	Acetate of lead, etc.	\$1.90
10	Steve Garrison	Blacksmith, labor and materials	2.50
10	E. Roy Hinman	Labor in December	11.25
10	Allan Thomas	Cassava plants	17.50
10	Joe Clemmings <i>et al.</i>	Labor, Dec. 16 to 31	157.05
11	C. I. Hinman	Livery in December	6.00
11	D. C. Sutton	Freight on lumber	7.00
14	Z. D. Gilman	Flasks	60.00
16	R. K. Hendley	Photographs	8.00
18	George Selzer	Labor, Dec. 1 to 20	21.29
19	C. A. Carson	Feed	23.64
19	Atchison, Topeka and Santa Fe R. R. Co.	Transportation, Oma Carr, November	20.85
24	D. C. Sutton	Freight on lumber and roots	8.02
24	Joe Clemmings <i>et al.</i>	Labor, January 1 to 15	169.15
27	C. I. Hinman	A two-horse power	10.00
31	D. C. Sutton	Salary for January	103.30
31	M. B. Clement	do	103.30
Feb. 7	D. C. Sutton	Freight on lumber	9.52
7	L. N. Snell	Lumber	129.58
7	Joe Clemmings <i>et al.</i>	Labor, Jan. 16 to 31	267.86
9	G. L. Spencer	Expenses in October	17.50
10	Geo. Moore	Thrashing cane seed	1.57
10	Wilsey E. Stout	do	5.25
10	Martin Thompson	do	5.00
10	C. G. Dye	do	6.00
10	S. T. Roach	Hauling	4.35
10	Warren Simpson	Thrashing cane seed	2.62
13	Fet. A. Lemaire	Transportation, beet seed	9.43
15	Adams Express Co.	Transportation, December	8.15
16	S. A. Johnson	Duty on sugar-beet seed	.50
18	A. H. Bennett	Thrashing cane seed	1.05
18	E. D. Wood	do	2.62
18	Wm. Decker	do	2.62
18	J. D. McCoy	do	2.62
20	Pennsylvania Company	Transportation, Carr, Dec., 1892	17.50
21	Joe Clemmings <i>et al.</i>	Labor, Feb. 1 to 15	123.75
27	A. Sutton	Surgical operation, etc	10.00
28	D. C. Sutton	Salary for February	93.40
Mar. 1	C. I. Hinman	do	93.40
3	M. B. Clement	do	93.40
6	J. M. Rusk	Traveling expenses to Kissimmee, Fla.	24.00
9	W. H. Harmon	Sacks	5.20
9	Eli Benedict	Labor and wheat	15.75
9	C. G. Dye <i>et al.</i>	Labor, February	7.50
15	John M. Williams	Hauling	.26
16	F. W. Hill	Feed	20.19
17	United States Express Co.	Transportation, February	2.30
18	Walter Maxwell	Traveling expenses, Feb. 28 to Mar. 2	16.00
20	Jacob Reese	Phosphate	3.64
20	Thos. H. White & Co.	Fertilizer	18.09
20	People's Dispatch Co.	Transportation, January	1.21
23	Joe Clemmings <i>et al.</i>	Labor, Mar. 1 to 15	53.50
29	J. L. Anderson	Coal	21.20
31	D. C. Sutton	Salary for March	103.30
31	H. W. Wiley	Additional compensation for quarter ending Mar. 31, 1892	125.00
31	Miller & Benedict	Land rent, Medicine Lodge, Kans., July 1, 1892, to Feb. 28, 1893	131.66
	Total third quarter		2,321.33
Apr. 5	Vilmorin, Andrieux & Co.	Beet seed, shipping, etc.	15.31
12	C. I. Hinman	Salary for March	103.30
12	A. M. Parsons	Board, etc., W. Maxwell, March	48.85
12	Fred. Weaver	Livery for W. Maxwell, March	28.00
12	Joe Clemmings <i>et al.</i>	Labor, Mar. 16 to 31	42.50
12	Theo. Pabst & Co.	Duty, etc., on beet seed	5.07
12	Atchison, Topeka and Santa Fe R. R. Co.	Transportation sugar mill, August, 1893	2.59
13	Pennsylvania R. R. Co.	Transportation, Maxwell, February	31.80
13	Alice E. Clement	Rent building, Dec. 1, 1892, to Feb. 28, 1893	22.50
14	Adams Express Co.	Transportation, February	5.30
21	People's Dispatch Co.	Transportation, March	7.03
22	Joe Clemmings <i>et al.</i>	Labor, Apr. 1 to 15	40.00
26	Wells & Nieman	Services teamster and team, March	3.75
26	George Selzer <i>et al.</i>	Labor for March	122.49
30	D. C. Sutton	Salary for April	98.90
May 2	C. I. Hinman	do	98.90

*Expenditures Department of Agriculture for fiscal year ending June 30, 1893—Cont'd.*

## EXPERIMENTS IN THE MANUFACTURE OF SUGAR—Continued.

Date.	Name.	Nature of payment.	Total.
1893.			
May 4	Fred. Weaver	Livery for April	\$30.00
4	A. M. Parsons	Board, etc., W. Maxwell, April	50.05
5	Wells & Nieman	Services teamster and team, April	38.70
5	Joe Clemmings <i>et al.</i>	Labor, Apr. 16 to 30	45.00
11	Alice E. Clement	Rent of building, Mar. 1 to Apr. 30, 1893	15.00
16	Robert Kiehle	Sugar-beer machine, etc.	85.30
16	F. W. Hill	Feed, Apr. 10 and May 9	41.68
16	L. Bailey <i>et al.</i>	Labor, April	83.85
16	George Selzer <i>et al.</i>	do	103.25
17	Thos. Somerville & Sons	Beet cutter	1.35
18	M. B. Clement	Expenses in March	61.75
24	Vandalia Line	Transportation books, February	.89
25	Joe Clemmings <i>et al.</i>	Labor, May 1 to 15	40.75
25	C. W. Grimstead	Cotton-seed meal, etc.	149.89
31	D. C. Sutton	Salary for May	102.20
June 5	Walter Maxwell	do	153.40
5	Fred. Weaver	Livery hire, May	31.00
5	A. M. Parsons	Rent room, May	51.00
5	Wells & Nieman	Livery hire, May	20.00
10	Southern Pacific Co. (Atlantic system).	Transportation, H. W. Wiley, June	5.40
10	Alice E. Clement	Rent building, May	7.50
10	Joe Clemmings <i>et al.</i>	Labor, May 15 to 31	40.75
20	United States Express Co.	Transportation, May	2.75
22	Joe Clemmings <i>et al.</i>	Labor, June 1 to 15	28.25
22	Chicago, Burlington and Quincy R. R. Co.	Freight transportation, February and March	8.83
28	J. W. Stewart	Oak post	1.20
28	Edward Lamhofer	Hydrochloric acid	2.50
28	A. M. Parsons	Beet seed, etc.	2.75
28	Ciril Schmid	Repairing harrow, etc.	4.75
28	Wells & Nieman	Seed oats, etc.	13.66
30	H. W. Wiley	Additional temporary compensation, Apr. 1 to June 30	125.00
30	Walter Maxwell	Salary for June	148.30
30	D. C. Sutton	do	98.90
	Total fourth quarter		2,271.89
	<i>Supplemental.</i>		
July 19	J. Hanna	Nails, hammer, etc.	1.45
19	C. I. Hinman	Salary for June	98.90
19	Eli Benedict	Plowing, etc., in June	116.50
19	J. W. Watson	Hardware, etc	6.87
19	do	Oil, turpentine, etc	34.38
19	do	Oil, etc.	129.93
19	Alice E. Clement	Rent of laboratory at Sterling, June	7.50
19	Lee Stewart <i>et al.</i>	Labor in June	12.99
19	Joe Clemmings <i>et al.</i>	Labor, June 16 to 30	24.50
20	Geo. W. Knox Express	Freight and drayage in April	63.91
21	John A. Power & Co.	Lavatory	5.63
27	C. L. Bramwell	Lumber	6.91
31	C. W. Pease <i>et al.</i>	Labor—teamster and team, June	66.60
Aug. 2	F. W. Hill	Feed	21.04
4	A. A. Denton	Services, June 24 to 30	24.00
28	J. B. Gano	Cartage in March and April	.75
	Transportation order		103.81
	Total		725.67

## RECAPITULATION.

First quarter	\$7,718.73
Second quarter	6,940.76
Third quarter	2,321.33
Fourth quarter	2,271.89
Supplemental	725.67
Total	19,978.38

*Expenditures Department of Agriculture for fiscal year ending June 30, 1893—Cont'd.*

## AGRICULTURAL EXPERIMENT STATIONS.

Date.	Name.	Nature of payment.	Total.
1892.			
July 31	W. O. Atwater	Salary for July	\$151.60
31	A. W. Harris <i>et al.</i>	Salaries for July	1,189.30
Aug. 2	John C. Parker	Library Journal, 1 year	5.00
20	United States Express Co.	Transportation	1.70
22	B. Westermann & Co	One book	6.90
31	W. O. Atwater	Salary for August	151.60
31	A. W. Harris <i>et al.</i>	Salaries for August	1,189.30
Sept. 9	A. W. Harris	Traveling expenses to Rochester, N. Y.	50.79
30	W. O. Atwater	Salary for September	146.80
30	A. W. Harris	Salaries for September	1,151.40
	Total first quarter		4,044.39
Oct. 1	A. E. Foote	Phosphates	2.50
5	A. B. Seymour	Index of Fungi	3.00
10	Chesapeake and Potomac Telephone Co.	Telephone rent, July 1 to Sept. 30	30.00
15	Alfred Thomson	Labor, Oct. 1 to 15	29.35
19	B. Westermann & Co	Jahresbr. über Agric. Chemie	55.00
31	A. W. Harris <i>et al.</i>	Salaries for October	1,246.60
Nov. 2	W. O. Atwater	Salary for October	151.60
8	Adams Express Co.	Transportation in September	6.30
14	John C. Parker	Stationery, etc.	13.39
17	Byron S. Adams	Numbered cards	5.00
28	John C. Parker	Stencil paper, etc.	3.35
29	A. C. True	Traveling expenses, Nov. 10 to 20	45.20
30	W. O. Atwater	Salary for November	146.80
30	S. E. Black	Traveling expenses, Nov. 9 to 21	39.20
30	E. W. Allen	Traveling expenses for November	56.98
30	A. W. Harris <i>et al.</i>	Salaries for November	1,019.20
Dec. 2	L. Paparelli	Two articles on Italy	50.00
6	A. W. Harris	Traveling expenses to Chicago and New Orleans, November	56.35
8	Geo. W. Knox Express	Drayage, October	.25
12	Adams Express Co.	Transportation, October	.85
16	Pennsylvania R. R. Co.	Transportation, Harris <i>et al.</i> , November	34.00
16	Orange Judd Co.	Highway construction	5.00
17	Belt & Dyer	Lumber	15.00
21	M. Maercker	Article on Halle Experimental Station	61.32
22	John C. Parker	Cherry bookcase	12.50
31	W. O. Atwater	Salary for December	151.60
31	A. W. Harris <i>et al.</i>	Salaries for December	977.10
	Total second quarter		4,217.44
1893.			
Jan. 4	Illinois Central R. R. Co.	Transportation, Harris <i>et al.</i> , November	46.00
10	Chesapeake and Potomac Telephone Co.	Telephone rent, Oct. 1 to Dec. 1	30.00
11	The Rural Publishing Co.	Horticulturalist's Rule Book	1.00
14	B. Westermann & Co	Foreign publications	21.66
16	Louisville and Nashville R. R. Co.	Transportation, Harris <i>et al.</i> , November	91.70
27	The Atlanta and West Point R. R. Co.	Transportation, Allen, November	3.27
27	The Western Railway of Alabama	do	11.60
31	E. W. Allen	Railroad fare, Washington to Barnesville, Md., and return	1.60
31	A. W. Harris <i>et al.</i>	Salaries for January	1,339.01
Feb. 1	P. Mann	Seeds for testing	1.00
2	N. V. Randolph & Co	Pamphlet, boxes, etc.	43.32
3	J. H. Mills & Co	Printers' supplies	63.44
11	F. L. Harvey	Experiment stations bulletins	4.00
11	Geo. W. Knox Express	Drayage	.25
16	Richmond and Danville R. R.	Transportation, Allen, November	21.60
23	W. O. Atwater	Salary for January	155.00
28	do	Salary for February	140.00
28	A. W. Harris <i>et al.</i>	Salaries for February	1,332.00
Mar. 2	Barber & Ross	Hardware	3.70
7	Estelle S. Allen	Translating	50.00
15	Pennsylvania R. R. Co	Transportation, Harris, February	11.50
17	New York and New England R. R. Co.	do	2.90
21	Adams Express Co.	Transportation, January	2.00
28	A. W. Harris	Traveling expenses to Philadelphia and return, March	11.30
28	do	Traveling expenses to Boston, etc., and return, February	18.98
28	N. Zuntz	Article on sources of muscular power of animals	25.00

Expenditures Department of Agriculture for fiscal year ending June 30, 1893—Cont'd.

## AGRICULTURAL EXPERIMENT STATIONS—Continued.

Date.	Name.	Nature of payment.	Total.
1893.			
Mar. 29	Geo. W. Knox Express	Freight and drayage	\$0.50
31	W. O. Atwater	Salary for March	155.00
31	A. W. Harris <i>et al</i>	Salaries for March	1,264.20
	Total third quarter		4,851.53
Apr. 8	The Chesapeake and Potomac Telephone Co.	Telephone rent, Jan. 1 to Mar. 31, 1893	30.00
10	Wyckoff, Seamans & Benedict	Rubber covers	4.00
12	B. Westermann & Co.	Foreign publication	11.25
12	Hannah F. Smith	Subscriptions	12.65
13	United States Express Co.	Transportation, March	1.35
14	Office Specialty Manufacturing Co.	Cabinet, indexes, etc.	4.60
20	Library Bureau	Card index case	7.50
20	N. V. Randolph & Co	Pamphlet cases	14.00
22	B. Westermann & Co	Foreign publication	.90
29	W. B. Moses & Sons	Desk	35.00
29	Walter H. Evans	Expenses, trip to Philadelphia and return, Mar. 31 to Apr. 1	11.05
30	A. W. Harris <i>et al</i>	Salaries for April	1,260.60
May 1	New York, New Haven and Hartford R. R. Co.	Transportation, Harris, February	8.60
6	Office Specialty Manufacturing Co.	Copying paper	15.00
11	W. O. Atwater	Salary for April	148.30
12	Westcott & Thomson	Electros	6.00
13	Adams Express Co.	Transportation in March	3.50
13	Geo. W. Knox Express	Drayage, Mar. 31	.50
17	United States Express Co.	Transportation in April	.95
19	John C. Parker	Wheels for typewriter	15.00
24	Library Bureau	Index case and express charges	17.45
31	W. O. Atwater	Salary for May	153.40
31	A. W. Harris <i>et al</i>	Salaries for May	1,426.60
June 20	B. Westermann & Co	Foreign publications	130.95
20	Library Bureau	1 Accession Book	9.50
20	W. O. Atwater	Freight, storage, etc., on photographs	12.25
20	United States Express Co.	Transportation, May	2.45
22	Adams Express Co.	do	7.30
23	Library Bureau	Book supports	31.00
30	A. W. Harris <i>et al</i>	Salaries for June	1,522.60
	Total fourth quarter		4,904.25
	<i>Supplemental.</i>		
July 6	W. A. Atwater	Salary for June	148.30
19	John C. Parker	Repairing type wheel	1.00
19	do	Letter book, etc.	2.10
19	do	Simplex printer	7.00
20	Herman Baumgarten	Type	2.50
20	The Chesapeake and Potomac Telephone Co.	Telephone rent, Apr. 1 to June 30	30.00
20	L. H. Hopkins	Hardware	.84
21	N. V. Randolph & Co	Pamphlet boxes	39.00
24	Adams Express Co.	Transportation in June	7.90
27	United States Express Co.	do	2.80
Aug. 16	W. O. Atwater	Expenses Feb. 22 to Mar. 1	36.75
25	Howard B. Gibson	Translating	119.35
Sept. 19	Emile De Moussy	Article on Grignon experiment station	40.00
Oct. 3	Library Bureau	Steel book-stack	50.00
Nov. 6	H. Hellriegal	Article on Bernburg experiment station	100.00
6	O. Burchard	Article on "seed control"	50.00
6	A. Gre e	Article on Swiss experiment stations	50.00
6	Adolph Mayer	Article on Holland experiment stations	25.00
	Total		712.54

## RECAPITULATION.

First quarter		\$1,044.39
Second quarter		4,217.44
Third quarter		4,851.53
Fourth quarter		4,904.25
Supplemental		712.54
Total		18,730.15

*Expenditures Department of Agriculture for fiscal year ending June 30, 1893—Cont'd.*

## WEATHER BUREAU—SALARIES.

Date.	Name.	Nature of payment.	Total.
1892.			
July 31	Mark W. Harrington <i>et al.</i>	Salaries for July	\$13,848.84
31	John W. Ryan <i>et al.</i>	do	70.17
Aug. 1	H. C. Bate	Salary for July	151.60
1	N. B. Conger	do	151.60
1	T. F. Townsend	do	151.60
31	Mark W. Harrington <i>et al.</i>	Salaries for August	13,798.87
31	N. B. Conger	Salary for August	151.60
31	John W. Ryan <i>et al.</i>	Salaries for August	70.63
Sept. 1	T. F. Townsend	Salary for August	151.60
1	H. C. Bate	do	151.60
30	Mark W. Harrington <i>et al.</i>	Salaries for September	13,639.05
30	Walter K. Durnbaugh <i>et al.</i>	do	69.00
	Total first quarter		42,401.16
Oct. 1	H. C. Bate	Salary for September	146.80
1	T. F. Townsend	do	146.80
31	Mark W. Harrington <i>et al.</i>	Salaries for October	14,340.37
31	Walter K. Durnbaugh <i>et al.</i>	do	70.50
Nov. 1	H. C. Bate	Salary for October	151.60
3	T. F. Townsend	do	151.60
30	Mark W. Harrington <i>et al.</i>	Salaries for November	13,776.99
30	Walter K. Durnbaugh <i>et al.</i>	do	69.00
Dec. 1	H. C. Bate	Salary for December	146.80
1	T. F. Townsend	do	146.80
31	Mark W. Harrington <i>et al.</i>	Salaries for December	14,241.58
31	Thos. Washington <i>et al.</i>	do	70.80
	Total second quarter		43,459.64
1893.			
Jan. 2	H. C. Bate	Salary for December	151.60
2	T. F. Townsend	do	151.60
31	Mark W. Harrington <i>et al.</i>	Salaries for January	14,751.15
31	H. F. Durkin	Salary from Nov. 12 to Jan. 12	67.57
31	Thos. Washington <i>et al.</i>		72.30
Feb. 1	H. C. Bate	Salary for January	155.00
1	J. W. Smith	do	155.00
28	Mark W. Harrington <i>et al.</i>	Salaries for February	13,355.65
28	Thos. Washington <i>et al.</i>	do	65.40
Mar. 1	H. C. Bate	do	140.00
1	J. W. Smith	do	140.00
31	Mark W. Harrington <i>et al.</i>	Salaries for March	14,748.71
31	Thos. Washington <i>et al.</i>	do	72.30
	Total third quarter		44,026.28
Apr. 1	J. W. Smith	Salary for March	155.00
4	H. C. Bate	do	155.00
11	H. F. Durkin	Salary from Mar. 14 to 15	2.50
30	Mark W. Harrington <i>et al.</i>	Salaries for April	13,821.09
30	Thos. Washington <i>et al.</i>	do	44.52
May 1	H. C. Bate	Salary for April	148.300
1	J. W. Smith	do	148.30
11	C. F. Marvin	do	206.00
31	Mark W. Harrington <i>et al.</i>	Salaries for May	13,782.95
31	C. F. Marvin <i>et al.</i>	do	332.20
31	Lucy Payne	Salary for May	20.40
June 1	H. C. Bate	do	153.40
1	J. W. Smith	do	153.40
30	Mark W. Harrington <i>et al.</i>	Salaries for June	13,228.14
30	C. F. Marvin	Salary for June	206.00
30	F. J. Randolph	do	115.40
30	Lucy Payne	do	19.80
	Total fourth quarter		42,692.40
	Supplemental.		
July 1	H. C. Bate	Salary for June	148.30
1	J. W. Smith	do	148.30
5	R. S. Manger	Salary, Jan. 1 to 23	.60
	Total supplemental		297.20

## RECAPITULATION.

First quarter		\$42,401.16
Second quarter		43,459.64
Third quarter		44,026.28
Fourth quarter		42,692.40
Supplemental		297.20

Total 172,876.68

Expenditures Department of Agriculture for fiscal year ending June 30, 1893—Cont'd.

## WEATHER BUREAU—FUEL, LIGHTS, AND REPAIRS.

Date.	Name.	Nature of payment.	Total.
1892.			
July 22	Hugh Reilly	Pane of glass	\$1.50
25	R. T. Fairfax	Hauling, etc	4.30
31	J. A. Hamilton <i>et al</i>	Labor for July	301.50
Aug. 8	Washington Gaslight Co.	Gas for July	25.00
23	Thomas Somerville & Sons	Repairing elevator	24.30
23	Belt & Dyer	Window pane, etc	14.70
24	U. S. Electric Lighting Co	Electric current, July	24.55
24	James Nolan	Plumbin	35.07
30	Geo. Ryneal, jr	Paints, etc	58.60
30	F. A. Schneider	Iron bars	2.85
31	J. A. Hamilton <i>et al</i>	Labor for July	352.55
31	R. T. Fairfax	Hauling	2.50
Sept. 6	Church & Stephenson	Lumber	1.30
10	Geo. Ryneal, jr	Paints, etc	31.06
10	J. E. Hurley	Poker, etc	4.56
10	Washington Gaslight Co.	Gas for August	25.20
14	The U. S. Electric Lighting Co.	Electric current, August	40.75
14	Geo. Ryneal, jr	Pane of glass	1.84
23	do	Bronze gold leaf	2.05
30	William S. Deyo <i>et al</i>	Labor for September	319.330
	Total first quarter		1,273.51
Oct. 4	Ernest Betz	Labor and material, painting	4.00
8	do	Zinc, etc	6.50
12	The U. S. Electric Lighting Co.	Electric current for September	34.29
12	Washington Gaslight Co	Gas for September	25.75
14	George Bowman	Hauling ashes	4.35
14	do	do	2.50
17	Joseph F. Collins	Labor and material, repairing building	89.18
19	Geo. Ryneal, jr	Glass	6.60
19	J. W. Thomas	Labor and material	380.40
31	J. A. Hamilton <i>et al</i>	Labor for October	346.90
Nov. 1	Wm. E. Wood & Co	Pipe coils, etc	252.52
3	Geo. Bowman	Hauling ashes in October	5.15
5	Chas. Werner	Wood	4.50
8	American Ice Co	Ice, August and October	196.85
11	W. T. Galliher & Bro	Lumber	47.93
11	John Moran	Lining grate with fire brick	8.00
14	Washington Gaslight Co	Gas for October	33.50
19	The U. S. Electric Lighting Co	Electric current, October	35.92
30	J. A. Hamilton <i>et al</i>	Labor for November	344.29
Dec. 1	Ernest Betz	Iron spout, etc	5.60
1	Thos. Somerville & Sons	Pipe, etc	4.54
1	James Nolan	Labor and material	33.20
1	E. G. Wheeler	Hose, etc	3.75
6	Geo. Bowman	Hauling	8.00
10	Washington Gaslight Co.	Gas for November	37.75
10	The U. S. Electric Lighting Co.	Electric current, November	37.84
16	American Ice Co	Coal	137.45
16	Geo. Ryneal, jr	Pane of glass, etc	2.90
16	E. N. Gray & Co	Water arch plate	79.00
16	John Moran	Repairing roof, etc	3.00
23	Geo. W. Schennerman	Tile floor	285.00
31	J. A. Hamilton <i>et al</i>	Labor for December	235.72
31	Daniel Perkins	Brickling up coalchute	4.50
31	Geo. Bowman	Hauling	8.35
31	Wm. A. Cassell	Services as painter	39.00
	Total second quarter		2,754.67
1893.			
Jan. 4	American Ice Co	Coal	148.18
11	Church & Stephenson	Cherry molding	19.00
12	W. T. Galliher & Bro	Lumber	36.80
12	Joseph F. Collins	Labor and material	64.56
12	Whittier Machine Co	Iron castings	12.50
12	John A. Power & Co	Check valve, etc	10.05
12	U. S. Electric Lighting Co	Electric current, December	43.60
17	Washington Gaslight Co.	Gas for December	40.75
23	Thomas Somerville & Sons	Valves, etc	6.38
23	James B. Lambie	Weather strip	6.12
22	American Ice Co	Coal	161.48
23	Geo. Ryneal, jr	Brushes, lead, etc	4.51
23	Williams & Hanks	Radiator, etc	41.47
26	James Nolan	Plumbing	32.75
31	J. A. Hamilton <i>et al</i>	Labor for January	253.71
31	George Bowman	Hauling, December	2.95
31	do	Hauling, January	7.40
31	F. A. Schneider	Water-gauge glasses	1.20

Expenditures Department of Agriculture for fiscal year ending June 30, 1893—Cont'd.

## WEATHER BUREAU—FUEL, LIGHTS, AND REPAIRS—Continued.

Date.	Name.	Nature of payment.	Total.
1893.			
Feb. 3	American Ice Co.	Coal	\$55.24
4	Washington Gaslight Co.	Gas, January	54.25
7	Hendley & Biggs	Steam radiator	75.00
7	U. S. Electric Lighting Co.	Electric current, January	41.83
10	Williams & Hanks	Steam radiator	45.00
10	do	Pipe	30.00
10	Hendley & Biggs	Valves, etc.	8.96
16	American Ice Co.	Coal	153.84
23	James Hughes	Labor and material	14.77
25	Thos. Somerville & Sons	do	35.09
28	Geo. Bowman	Removing ashes	4.30
28	do	do	7.50
28	J. A. Hamilton <i>et al.</i>	Labor for February	254.00
28	Wm. A. Cassell	Services, Jan. 30 and 31, Feb. 25 to 27	12.00
Mar. 3	James Nolan	Labor and material	12.00
3	American Ice Co.	Coal	114.72
13	James B. Lambie	Hardware	3.85
13	S. T. Shipley & Co.	Repairs to boiler	6.00
13	Ernest Betz	Repairing roof	22.09
14	Washington Gaslight Co.	Gas for February	55.75
14	U. S. Electric Lighting Co.	Electric lights for February	35.50
15	John K. Ward	Covering steam pipes	7.50
15	Geo. Ryneal, jr.	Asphaltum, etc.	1.60
20	Pettit & Dripps	Grate bars	3.12
23	J. B. Hammond	Lumber	12.50
31	American Ice Co.	Coal	160.92
31	J. A. Hamilton <i>et al.</i>	Labor for March	306.48
31	Geo. Bowman	Removing ashes, etc.	6.45
31	do	Removing ashes	5.20
	Total third quarter		2,438.96
Apr. 8	James Nolan	Plumbing	186.29
11	Geo. Ryneal, jr.	Oils, etc.	8.75
11	Washington Gaslight Co.	Gas for March	52.25
13	U. S. Electric Lighting Co.	Electric current, March	37.08
18	Thos. Somerville & Sons	Repairing ejector, etc.	4.33
26	James Nolan	Labor and material	39.55
30	J. A. Hamilton <i>et al.</i>	Labor for April	277.60
30	Geo. Bowman	Removing ashes	8.95
	do		3.45
May 1	W. A. Pate	Soapstone packing	1.00
1	F. A. Schneider	Hardware	5.40
11	Washington Gaslight Co.	Gas for April	42.75
14	U. S. Electric Lighting Co.	Electric current, April	37.21
14	J. B. Hammond	Lumber	4.00
14	James Nolan	Gas burners, etc.	54.00
13	Thos. Somerville & Sons.	Repairing shafting	8.35
13	Ernest Betz	Repairing roof	8.20
19	American Ice Co.	Coal	141.77
31	J. A. Hamilton <i>et al.</i>	Labor for May	263.80
31	Geo. Bowman	Removing ashes	1.90
31	do	do	1.65
31	do	do	3.65
June 1	S. T. Shipley & Co.	Repairs to boiler	5.00
1	James B. Lambie	Shelf blocks	.48
1	F. A. Schneider	Lawn mower	9.50
1	M. J. Adler	Brass hinges	.75
2	James H. McGill	Fire clay	1.00
6	Washington Gaslight Co.	Gas for May	25.75
8	Thos. Somerville & Sons	Engine supplies	1.54
10	United States Electric Lighting Co.	Electric current for May	37.50
12	James B. Lambie	Brass	1.15
16	F. A. Schneider	Zinc	11.00
21	W. T. Galliher & Bro.	Lumber	5.64
13	Boyce & Marean	Lamp cord, etc.	2.16
23	The E. F. Brooks Co.	Shade holders, etc.	1.60
30	Henry Braun <i>et al.</i>	Labor for June	249.10
30	F. A. Schneider	Hardware	22.94
30	Geo. Bowman	Removing ashes	3.05
30	do	do	2.00
30	do	do	.50
	Total fourth quarter		1,582.59
	Supplemental.		
July 5	Church & Stephenson	Lumber	27.87
5	H. L. Crawford	Paving	262.50

Expenditures Department of Agriculture for fiscal year ending June 30, 1893—Cont'd.

## WEATHER BUREAU—FUEL, LIGHTS, AND REPAIRS—Continued.

Date.	Name.	Nature of payment.	Total.
1893.			
July 7	Thos. Somerville & Sons	Laborer and material .....	\$6.08
7	do	Brass nipples .....	.40
22	Washington Gaslight Co.	Gas for June .....	27.50
26	United States Electric Lighting Co.	Electric current, June .....	33.63
26	Robert Leitch & Sons	Steam pipe, etc .....	3.32
Aug. 10	Thos. Somerville & Sons	Cellar drainer .....	28.00
17	John A. Power & Co	Lava tips .....	.50
Oct. 7	Pettit & Dripps	Iron doors and frame .....	12.00
	Total supplemental		401.80

## RECAPITULATION.

Total first quarter .....	\$1,273.51
Total second quarter .....	2,754.67
Total third quarter .....	2,438.96
Total fourth quarter .....	1,582.59
Supplemental .....	401.80
Total .....	8,451.53

## WEATHER BUREAU—CONTINGENT EXPENSES.

Date.	Name.	Nature of payment.	Total.
1892.			
July 18	Walter B. Williams & Co	Services, June 30 to July 5 .....	\$10.48
20	Washington City post-office	Postage stamps .....	500.00
22	J. Baumgarten & Son	Rubber stamps .....	4.00
22	John C. Parker	Index cards .....	10.05
22	National Railway Publication Co.	Subscription to Railway Guide .....	5.00
22	A. E. Foote	Pamphlets and books .....	114.45
26	Maurice Joyce	Engraving plates .....	19.00
30	J. Baumgarten & Son	Rubber stamps, etc .....	9.50
Aug. 5	Peter Paul & Bro	Caligraph .....	85.00
5	John McDermott & Bro	Carriage .....	175.00
6	B. Westermann & Co	Book .....	7.20
6	M. G. Copeland & Co	Flag .....	12.50
8	Susan Washington	Washing towels, July .....	3.42
10	M. E. Mann	Annual Cyclopedias .....	6.00
12	Newman & Son	Repairs to caligraph .....	1.50
12	F. P. May & Co	Revolver .....	14.00
16	Marshall Field & Co	Towels .....	88.80
16	M. Silverberg & Co	Picture frames .....	6.25
16	John C. Parker	Stationery .....	94.15
17	W. B. Moses & Sons	Carpets, etc .....	153.34
17	John C. Parker	Stationery .....	416.02
17	Bowers & Daly	Labor and material .....	6.00
19	A. G. Elliot & Co	Manila paper .....	204.00
19	Easton & Rupp	Stationery .....	28.50
19	Fred. A. Schmidt	Celluloid .....	.50
19	M. Silverberg & Co	Picture frame .....	3.73
23	F. A. Schneider	Wire cloth, etc .....	1.20
23	do	Hardware .....	13.15
23	C. H. Pond	Dating stamp .....	3.00
23	J. Baumgarten & Son	Rubber stamps .....	2.00
24	L. H. Schneider's Son	Hardware .....	6.05
24	The Hygienic Ice Co	Ice for July .....	12.38
24	S. S. Daish & Son	Feed .....	25.62
30	J. H. Chesley & Co	Brooms .....	12.00
Sept 2	J. Baumgarten & Son	Rubber stamps .....	10.10
3	F. S. Cahill & Co	Repairing bicycle .....	5.00
3	S. S. Daish & Son	Feed .....	20.68
6	F. A. Schneider	Mortise machine, etc .....	49.99
7	Library Bureau	Book supports .....	16.00
7	Wm. Ballantyne & Sons	Foreign publications .....	10.59
7	Wyckoff, Seamans & Benedict	Typewriter .....	85.00
7	Henry A. Clark & Son	Labor and material .....	5.00
7	F. A. Schneider	Hardware .....	4.40
7	Bowers & Daly	Horseshoeing .....	4.89
7	E. W. Woodruff	File-holder cabinet .....	110.00
7	Susan Washington	Washing towels, August .....	3.83
14	M. Silverberg & Co	Picture frames .....	5.00

Expenditures Department of Agriculture for fiscal year ending June 30, 1893—Cont'd.

## WEATHER BUREAU—CONTINGENT EXPENSES—Continued.

Date.	Name.	Nature of payment.	Total.
1892.			
Sept. 14	M. L. Ferguson	Cram's Standard Atlas	\$25.00
14	W. B. Moses & Sons	Office furniture	151.75
14	J. Baumgarten & Son	Rubber stamps	2.00
15	Wyckoff, Seamans & Benedict	Remodeling typewriters	65.00
19	Easton & Rupp	Stationery	209.87
23	The Manhattan Supply Co.	Glue	5.76
23	H. B. Nims & Co	Wooden globe	20.00
23	W. B. Moses & Sons	Furniture, etc.	202.65
23	Henry A. Clark & Son	Repairing typewriter	4.80
26	Overman Wheel Co.	Repairing bicycle	.85
	Total first quarter		3,071.97
Oct. 1	John C. Parker	Envelopes	16.50
1	Herdic Phaeton Co	Street-car tickets	39.00
4	M. G. Copeland & Co	Flag	12.50
5	Susan Washington	Services, Sept. 1 to 30	3.62
8	F. A. Schneider	Hardware	8.01
8	Esther De Puy	Platen for Yost machine	3.00
8	Bowers & Daly	Labor and material, horseshoeing	5.25
14	Wm. Ballantyne & Sons	Stationery	213.75
14	Wm. Wesley & Son	Books	60.37
14	J. A. Hamilton	Rubber horse cover	3.50
15	Henry J. Green	Achromatic reading glass	2.25
15	J. F. Tenney	Numbering machine	16.00
15	John C. Parker	Stationery	3.45
15	S. S. Daish & Son	Feed	21.70
15	Tissot & Schultz	Hardware	15.14
15	Chesapeake and Potomac Telephone Co.	Exchange rental July 1 to Sept. 30	42.02
17	M. G. Copeland & Co	Paulins	18.00
19	W. B. Moses & Sons	Furniture	53.50
19	B. J. Downey & Son	Harness, etc.	53.75
25	F. A. Schneider	Brass rings, etc.	4.50
26	Overman Wheel Co	Repairing bicycle	2.50
Nov. 5	John C. Parker	Stationery, etc.	124.11
5	Susan Washington	Washing towels for October	2.50
8	John McDermott & Bro	Repairing carriage	89.00
8	Bowers & Daly	Shoeing horses, October	3.75
9	C. Witmer & Co	Turpentine	26.00
9	J. Baumgarten & Son	Stamps	12.50
9	John McDermott & Bro	Repairing carriage, etc.	17.00
10	J. C. Addison	Pen racks	1.60
10	Newman & Son	Repairs to caligraph	1.50
11	W. T. Galliher	Lumber	7.20
11	Gregory Bros.	Clock cord	.50
11	Henry A. Clark & Son	Repairing typewriter	9.00
12	Henry Romeika	Press clippings	3.20
14	J. F. Tenney	Numbering machine	16.90
16	Overman Wheel Co	Repairs to bicycle	4.00
21	B. J. Downey & Son	Repairs to harness, etc.	4.50
22	Library Bureau	Index cards	12.60
22	W. B. Moses & Sons	Storage on carpets	32.00
22	M. G. Copeland & Co	Decorating building	150.00
22	George Ryneal Jr	Stationery	89.43
26	E. J. Brooks & Co	Twine	29.04
26	J. Baumgarten & Sons	Rubber stamps, etc.	8.75
26	John C. Parker	Stationery	74.34
26	Hugh Reilly	Benzine, etc.	8.75
26	James S. Topham	Leather chair seats	9.60
30	F. A. Schneider	Brass wire	1.75
Dec. 1	J. B. Hammond	Cherry stand	7.50
3	William Ballantyne & Sons	Stationery	25.30
6	C. Becker	Alligator bag	5.25
6	Bowers & Daley	Shoeing horses, etc.	3.00
6	Susan Washington	Washing towels, November	2.64
10	Gustav E. Stechert	Subscription to periodicals	80.89
10	Macmillan & Co	Book	3.76
10	A. E. Foote	Books	12.20
10	William Ballantyne & Sons	do	47.74
10	John C. Parker	Eyelet punch	2.50
10	Brentanos	Subscription to Book Chat	1.00
14	Gustav E. Stechert	Subscription to American Meteorological Journal	3.60
14	W. B. Moses & Sons	Carpet, etc.	809.25
16	Herdic Phaeton Co	Street-car tickets	39.00
16	George Ryneal, jr	Thumb tacks	.96
16	Charles T. Carter & Co	Steel-wire nails	11.18
16	C. Becker	Knee caps, etc.	8.45

Expenditures Department of Agriculture for fiscal year ending June 30, 1893—Cont'd.

## WEATHER BUREAU—CONTINGENT EXPENSES—Continued.

Date.	Name.	Nature of payment.	Total.
16	James D. and E. S. Dana	Subscription to American Journal of Science.	\$3.00
16	Daniel Johnson	Flaxseed meal, etc	1.26
17	D. C. Stull	Sperm oil	49.50
17	S. S. Daish & Son	Feed	22.70
23	R. R. Bowker	Subscription to Library Journal	7.50
1893.		Total second quarter	2,486.01
Jan. 2	Will M. Clemens, manager	Newspaper clippings	7.90
2	Fred Springman	Hauling	2.00
11	John C. Parker	Directories, etc.	14.13
11	Susan Washington	Washing towels	1.70
12	W. B. Moses & Sons	Carpet, matting, etc	164.98
12	W. T. Galliher & Bro.	Lumber	6.11
12	Bowers & Daly	Shoeing horses, December	7.00
12	Lucy Payne	Washing towels, December	1.13
12	J. W. Boteler & Son	Towel rollers	6.30
12	Newman & Son	Remodeling caligraphs	70.00
12	W. B. Moses & Sons	Desk	60.00
17	Wycoff, Seamans & Benedict	Typewriter	87.50
17	W. B. Moses & Sons	Smyrna rug	6.75
17	J. Baumgarten & Son	Numbering machine, etc	25.30
23	W. B. Moses & Sons	Carpet sweepers, etc	45.00
23	James B. Lambie	Hardware	29.96
23	Chesapeake and Potomac Telephone Co.	Telephone service, Oct. 1 to Dec. 31	43.00
23	John C. Parker	Fountain pens, etc	23.95
23	Easton & Rupp	Stationery	6.00
24	Whiteside & Walton	Soap and borax	.95
26	Charles H. Pleasants	Chamois skins	38.80
26	W. A. Pate	Putz pomade	2.40
26	Herdic Phaeton Co.	Street-car tickets	78.00
28	M. Silverberg & Co.	Picture frames	4.50
31	Samuel Miller	Electrical supplies	21.00
31	F. A. Schneider	Ha dware	2.30
31	Moriz Perles	Books	5.70
Feb. 1	E. Morrison Paper Co	Record books	2.70
3	W. B. Moses & Sons	Bunting, etc	16.75
3	Lucy Payne	Washing towels, January	3.02
3	Robert Mayer & Co	Tracing paper	6.00
3	J. B. Chamberlain	Chemicals	5.35
3	C. Becker	Whip	1.50
3	James B. Lambie	Hardware	14.56
3	Geo. Ryneal, jr.	Paint, etc	7.45
7	Ezra W. Raub	Drayage	3.00
7	Bowers & Daly	Horseshoeing	8.00
7	Daniel Johnson	Feed, etc	22.16
7	S. S. Daish & Son	Straw, oats, etc	43.12
7	John C. Parker	Postal guides	25.80
10	Newman & Son	Repairing caligraph	6.00
10	Church & Stephenson	Lumber	20.44
10	Hendley & Biggs	Oil cans, etc	2.05
10	J. Baumgarten & Son	Dating stamp, etc	3.50
11	John C. Parker	Stationery	21.65
11	Wm. Ballantyne & Sons	Manila paper	89.92
16	Carl Barus	Labor and material	9.05
17	Charles McDonald	Franklin typewriter	60.00
20	F. A. Schneider	Hardware	3.15
23	Daniel Johnson	Feed	20.61
23	C. Becker	Carriage robe	25.00
24	People's Dispatch Co.	Transportation charges	1.10
24	Columbia Phonograph Co.	Phonograph blanks	48.00
25	B. H. Stinemetz & Son	Coachman's fur cape	17.00
25	Wm. Ballantyne & Sons	Stationery	157.65
28	C. S. Braisted	Rubber erasers	6.48
28	Henry Ginnel & Co.	Clock oil	6.67
28	The Manhattan Supply Co.	Feather dusters, etc	56.00
28	J. C. Addison	Rubber bands	6.75
28	John C. Parker	Pins, etc	15.18
28	Easton & Rupp	Stationery	62.08
28	W. T. Galliher & Bro.	Lumber	91.91
28	Washington City post-office	Postage stamps	500.00
28	L. W. Sherman	Telephone tablet, etc	3.00
Mar. 3	John C. Parker	Stationery	35.65
3	Edwin E. Howell	Making map of the United States	155.00
3	Charles T. Carter & Co	Nails	19.25
8	Marshall Field & Co.	Towels	22.20
8	Geo. Ryneal, jr.	Thumb tacks, etc	1.44

*Expenditures Department of Agriculture for fiscal year ending June 30, 1893—Cont'd.*

WEATHER BUREAU—CONTINGENT EXPENSES—Continued.

Date.	Name.	Nature of payment.	Total.
1893.			
Mar. 8	John C. Parker	Stationery	\$37.80
13	Newman & Son	Remodeling caligraph	35.00
13	Ernest Betz	Pans	5.00
13	F. E. Schneider	Hardware	4.44
13	Wilmarth & Edmonston	Tube for water filter	1.25
13	Lucy Payne	Washing towels	2.90
15	Gustav E. Stechert	Subscription for magazines, 1893	160.00
15	Newman & Son	Caligraph	81.00
15	John McDermott & Bro	Repairing office carriage	3.00
15	Z. D. Gilman	Alcohol, etc	6.25
15	C. Becker	Blanket, etc	17.65
17	A. E. Foote	Books	2.30
17	Daniel Johnson	Hay, straw, etc	22.99
17	Wyckoff, Seaman & Benedict	Typewriter	80.00
17	Carl Barus	Services as cleaner, February	2.00
17	Bowers and Daly	Shoeing horses	4.75
17	Overman Wheel Co	Repairing bicycle	11.90
17	John M. Young	Mail wagon, etc	141.90
20	John C. Parker	Stationery	79.48
23	D. H. Farlin	Livery hire	6.00
31	Wm. Ballantyne & Sons	Stationery	79.20
31	Easton & Rupp	do	79.48
31	W. B. Moses & Sons	Chairs and rugs	57.75
31	John C. Parker	Paper	7.45
31	William Wesley & Son	Books	234.10
	Total third quarter		3,552.09
Apr. 5	Keuffel & Esser Co.	Stationery	37.70
8	Chesapeake and Potomac Telephone Co.	Rent of telephone, Jan. 1 to Mar. 31	43.00
8	Geo. Ryneal, jr	Brushes, etc	1.50
8	Wm. Ballantyne & Sons	Books	10.12
8	Millard Metzger	Whisk brooms	3.36
8	James B. Lambie	Hardware	2.63
11	John C. Parker	Letter press, etc	40.00
11	Lucy Payne	Washing towels, March	3.39
12	John C. Parker	Remodeling typewriter	67.35
12	R. H. Dean	Wires for magnetic globe	1.50
14	W. G. Shock	Caligraph, etc	95.00
14	Henry A. Clark & Son	Typewriter erasers, etc	15.90
14	John C. Parker	Index cards, etc	12.34
14	W. A. Pate	Putz pomade	2.40
18	Ezra W. Raub	Hauling	1.00
18	Carl Barns	Pressure gauge, etc	13.80
18	Thos. Somerville & Sons	Lead	1.50
18	Whiteside & Walton	Insect powder	.70
18	D. Johnson	Feed	21.91
18	M. G. Copeland & Co	Flag	7.50
18	James B. Lambie	Hardware	1.50
18	Herdic Phaeton Co.	Street-car tickets	39.00
19	Ernest Betz	Labor and material	9.50
19	John C. Parker	Blank books, etc	145.00
21	The Burnham Antique Book store.	Books	5.25
25	Bowers & Daly	Horse shoeing	5.75
26	Clemens News Agency	Clippings	11.50
26	J. Baumgarten & S. n	Rubber stamps	3.80
May 1	F. A. Schneider	Hardware	1.05
2	Lubrofene Oil Co.	Lubricating oil, etc	51.03
2	Newman & Son	Remodeling caligraph, etc	74.00
2	Geo. Ryneal, jr	Pane of glass	3.00
2	Overman Wheel Co.	Repairing bicycle	.25
2	C. Becker	Clipper, etc	8.15
5	John C. Parker	Remodeling typewriter	45.00
11	Lucy Payne	Washing towels for April	3.52
11	F. A. Schneider	Brass hooks, etc	8.50
11	C. Schneider	Repairing safe	20.00
11	J. Baumgarten & Son	Rubber stamps	2.35
11	Bowers & Daly	Horseshoeing	4.25
11	Vernon H. Brown & Co., agents	Freight charges	6.48
13	W. H. Butler	Oil, etc	12.50
13	J. H. Chesley & Co	Brooms	15.00
17	Carl Barus	Labor, etc	3.50
19	Photo-Engraving Co	Photo engravings	18.40
23	Library Bureau	Guides	4.00
23	Newman & Son	Remodeling caligraph	35.00
23	Philip H. Ward	Salt, etc	1.05
31	do	Sal soda	.20

Expenditures Department of Agriculture for fiscal year ending June 30, 1893.—Cont'd.

## WEATHER BUREAU—CONTINGENT EXPENSES—Continued.

Date.	Name.	Nature of payment.	Total.
1893.			
June 1	Felix L. Dames	Books and pamphlets	\$178.12
1	A. E. Foote	Books	7.25
1	World Publishing Co.	Advertising	7.20
1	The Bee Publishing Co.	do	6.90
1	F. A. Schneider	Maps, etc.	3.65
1	Craig & Harding	Screens	8.85
1	Monogue & Jones	Blacking brushes, etc.	2.29
1	James B. Lambie	Hardware	3.50
1	James Baumgarten & Son	Rubber stamps	2.25
2	Press Publishing Co.	Advertising	30.00
2	A. S. Abell Company	do	10.80
2	Wm. Ballantyne & Sons	Paper	77.00
2	G. J. Johnson	Lime	2.20
3	Gustav E. Stechert	Books	7.75
6	R. R. Bowker	Index to periodicals	5.50
6	E. J. Brooks & Co	Twine	27.40
6	John H. King	Copy holders	10.00
6	Washington News Publishing Co.	Advertising	6.40
6	Lucy Payne	Washing towels for May	3.99
6	Chicago Herald Co.	Advertising	28.50
5	Herdic Phaeton Co.	Street-car tickets	39.00
8	William Wesley & Son	Books	68.25
10	New York Staats Zeitung	Advertising	9.50
12	Yost Writing Machine Co	Repairing typewriter	12.45
12	Bowers & Daly	Shoeing horse in May	6.00
13	Washington Post Co	Advertising	8.80
16	The Record Publishing Co.	do	22.80
17	John C. Parker	Supplies for typewriter	4.03
17	do	Stationery	31.56
17	do	do	26.10
17	B. J. Downey	Repairing harness, etc.	1.25
17	Littlefield, Alvord & Co	Moving office furniture	45.00
17	F. A. Schneider	Hardware	1.00
17	J. Baumgarten & Son	Rubber stamps	1.30
19	Charles H. Pleasants	Chamois skins	24.75
19	R. H. Smith Manufacturing Co.	Rubber type, etc	4.00
19	Strawbridge & Clothier	Surah silk	1.00
19	J. C. Addison	Rubber bands	29.10
19	M. H. Beveridge	Pitcher	2.00
19	F. S. Cahill & Co	Repairing bicycle	2.50
19	Easton & Rupp	Desk, etc	22.97
19	J. B. Bryan & Co	Soap	42.48
21	Millard Metzger	Whisk brooms	1.68
21	E. W. Woodruff	File-holders	3.00
21	Royce & Marean	Fuse wire	.25
21	Daniel Johnson	Feed	35.78
23	Newman & Son	Repairing caligraph	4.50
23	Craig & Harding	Window shades	46.50
30	F. A. Schneider	Auger with handle	1.75
30	J. Baumgarten & Son	Rubber stamp	.50
30	J. W. Boteler & Son	Tumblers	.50
30	J. H. Chesley & Co	Emery cloth	.45
	Total fourth quarter		1,850.93
	Supplemental.		
July 3	E. J. Brooks & Co.	Cable twine	27.13
3	Chadwick Copying Book Co.	Copying letter books	31.00
3	John C. Parker	Blank book	5.00
5	Columbia Phonograph Co.	Rent of phonograph, Feb. 15 to June 30	63.75
7	Geo. Ryneal, Jr.	Lard oil, etc.	1.05
7	Chas. T. Carter & Co.	Buckets	5.25
7	United States Mailing Case Co.	Mailing cases	7.25
7	Monogue & Jones	Boxes of blacking	.60
22	James Nolan	Plumbing in June	35.00
22	Chesapeake and Potomac Telephone Co.	Exchange rent, Apr. 1 to June 30	43.00
26	M. J. Adler	Zinc	6.00
26	G. J. Symons	Barometer, etc.	1.68
26	W. D. Brace	Roach paste	.25
Aug. 3	E. Morrison Paper Co.	Stationery	5.50
3	Bowers & Daly	Shoeing horses in June	3.75
3	Whiteside & Walton	Camphor	1.20
3	W. B. Moses & Sons	Cleaning carpets, etc.	30.00
9	Manhattan Supply Co.	Toilet soap	4.20
9	John C. Parker	Stationery	2.70
9	Belt & Dyer	Cedar posts	5.00
10	Lucy Payne	Washing towels in June	3.99

Expenditures Department of Agriculture for fiscal year ending June 30, 1893—Cont'd

## WEATHER BUREAU—CONTINGENT EXPENSES—Continued.

Date.	Name.	Nature of payment.	Total.
1893.			
Aug. 11	The Hygienic Ice Co.	Ice, Aug. 1, 1892, to June 30, 1893	\$112.81
17	New York Times Publishing Co.	Advertising	33.00
18	Hugh Reilly	Varnish, paint, etc.	2.70
18	Georgetown Gaslight Co.	Laying gas pipe	10.60
24	Gustav E. Stechert	Foreign books	8.58
Sept. 12	Wm. Ballantyne & Sons	Stationery	122.00
12	do	do	145.40
12	The Washington Post Co.	Advertising	12.50
20	Library Bureau	Index cards	9.00
22	W. T. Galliher & Bro.	Lumber	44.00
Oct. 5	F. A. Schneider	Hardware	.75
	Total supplemental		784.64

## RECAPITULATION.

Total first quarter	\$3,071.97
Total second quarter	2,486.01
Total third quarter	3,552.09
Total fourth quarter	1,850.93
Supplemental	784.64

Total 11,745.64

## WEATHER BUREAU—GENERAL EXPENSES.

Date.	Name.	Nature of payment.	Total.
1892.			
July 18	Park Morrill	Traveling expenses	\$7.00
20	Darrow & Comstock	Matches	1.20
20	C. J. Viets	Mucilage and ink	2.95
20	Clarke & Co.	Matches, oil, etc	5.80
22	Burroughs & Vivion Brothers	Mucilage and ink	1.40
22	Broadwater & Pepin	Ink	2.00
22	George Meier & Co.	Varnish	5.25
22	Thomas B. Dornin & Son	Water cooler	6.50
22	Joseph A. Smith	Lamp, chimneys, etc.	8.95
22	H. J. Penrod	Traveling expenses	10.60
22	D. P. Henderson & Co.	Mucilage and ink	5.65
22	Glinebaugh & Johnson	Labor and material	4.50
25	J. C. Entwistle	Engraving	5.00
25	do	Correcting plate, etc.	14.00
25	Moss & Bently	Mucilage and ink	1.70
25	J. F. Jones & Co.	Matches and brooms	1.96
25	C. W. Hill	Services, July 1 to 11	2.20
25	Joseph W. Field	Repairing clock	3.00
25	M. E. Clarke	Services as cleaner	5.00
25	Broadwater & Pepin	Matches and oil	13.04
25	W. G. Banks	Feed	26.11
25	Wyckoff, Seamans & Benedict	Repairing typewriter	40.00
25	Stoddard & Daniels	do	60.00
26	Andrew Renz	Grinding paper knife	1.50
26	Andrew B. Graham	Engraving	10.00
26	Maurice Joyce	Logotypes	18.00
26	Eugene May	Mucilage	1.95
26	Jno. M. Klein	Cartage, etc.	6.50
26	E. A. Ingersoll	Painting	8.00
30	E. J. Lewis	Disk for blower	1.10
30	Melville Lindsay	Tubing	3.36
30	E. L. Bugbee	Traveling expenses	6.50
30	J. C. Entwistle	Rags	8.00
30	Charles B. Tuck	Traveling expenses	35.45
30	E. H. Emery	Expenses, July 13	2.25
30	T. F. Townsend	Expenses, July 1 to 3	7.50
30	Ginn & Co.	Subscriptions, July 1, 1892, to June 30, 1893	112.50
31	J. K. Robinson <i>et al.</i>	Services for July	2,223.65
31	Belle F. Plummer <i>et al.</i>	Services, July 13 to 31	198.37
Aug. 4	United States Mailing Tube Co.	Mailing tubes	5.22
4	Nowotny Electric Co.	Repairing electric apparatus	2.50
4	S. W. Fleming	Mucilage, ink, etc.	11.30
4	James I. Patten	do	3.50
4	B. P. Nickerson	Repairing United States telegraph line	4.50
4	Wm. N. Grubb	Stamps, etc.	2.25

Expenditures Department of Agriculture for fiscal year ending June 30, 1893—Cont'd.

## WEATHER BUREAU—GENERAL EXPENSES—Continued.

Date.	Name.	Nature of payment.	Total.
1892.			
Aug. 4	Ed Ockels	Repairing chair, etc	\$4.00
4	Hamilton & Kendrick	Mucilage, ink, etc.	8.30
4	The Baltimore Traction Co	Street-car tickets	54.75
4	W. H. Renear	Hire of team, July 11 to 14	2.00
4	Wm. Buckley	Repairing cable	142.45
4	Forsberg & Murray	Forging iron ring	4.05
4	H. L. Heiskell	Traveling expenses, July 26	3.10
4	Mark W. Harrington	do	50.80
5	Brigham & Weeks	Cook stove, etc.	34.50
5	R. H. Elmore	Benzine, etc.	.75
5	C. W. Yates	Mucilage, ink, etc.	8.67
5	John F. Weaver	Water cooler	5.00
5	T. J. Foley	Lamp chimneys, etc.	1.75
5	Darrow & Comstock	Illuminating oil	2.88
5	A. D. Gibson & Sons	Desk and chairs	30.00
5	Chestoka Peterson	Brooms, matches, etc.	59.05
5	Geo. W. Knox Express	Hauling	1.38
5	J. D. Free, Jr.	Melodiograph felt	11.25
5	William M. Case	Services for July	40.00
6	J. D. Free, Jr.	Melodiograph ink	2,070.00
6	J. N. Applebaugh	Services for July	36.00
6	W. S. Gosnell	Services as cleaner, July	5.00
6	Wilson Johnson	do	12.50
6	Hin Suey	do	5.00
6	William E. May	do	5.00
6	Cicero Crawford	do	3.00
6	J. Kubec & Co.	Repairing caligraph	3.00
6	Thos. Robinson	Services as displayman, July	25.00
6	W. T. & F. B. Weaver	Lacings	2.75
8	J. H. Bunnell & Co	Electrical supplies	11.80
8	Edward A. Evans	Expenses for July	46.50
8	W. H. Hammon	do	45.00
8	Davis Swainson & Co.	Table, etc.	10.00
8	W. G. Hamilton	Curtain fixtures	7.00
8	Geo. H. Fuller Desk Co	Desk, etc.	20.75
8	Smith & Swainson	Rent of desk and storeroom	10.00
8	Richard Titus	Services as cleaner, July	4.00
8	Geo. E. Hunt	Expenses for July	46.50
8	Paris Morrill	do	46.50
8	H. H. Hodgson	Repairing typewriter	9.85
8	Charles Pratt	Repairing desk	5.00
8	Smith & Lynch	Fire grate, etc.	3.25
8	Patrick Straw	Services as cleaner, July	5.00
8	Miles Jackson	do	5.00
8	Jennie Pritchett	do	3.00
10	V. T. Cosby	Labor and materials	11.45
10	Charles A. Hunt	Oil and matches	1.50
10	Burr & Bailey Co.	Labor and material	5.75
10	Emma Ling	Services as cleaner, July	5.00
10	A. J. Edie	Replacing river gauge	1.00
10	P. H. Young	Repairing clock	1.50
10	Jimmie Kallappa	Wood	3.00
10	E. R. Demain	Repairing typewriter	1.00
10	F. L. Jackson, agent	Office rent, Yankton, S. Dak., July	24.75
10	G. R. Wilson	Labor and material	14.00
10	John P. Glynn	Hauling	.75
10	L. E. Strouach	Car fare, July	3.10
12	C. L. Bozzell	Expressage	1.30
12	C. S. Braisted	Erasers	31.50
12	Levy Dreyfus & Co.	Clocks	61.20
12	E. W. Stephens	Book ink	7.50
12	Pennington Bros.	Mucilage and ink	1.80
12	Thaddeus Davids Co.	Ink	13.50
12	Rogers Manifold Carbon Paper Co.	Agate style	12.50
12	Thomas J. Luttrell	Cotton	2.16
12	J. C. Addison	Rubber bands	169.35
12	C. C. Pursell	Books	100.00
12	M. Metzger	Whisk brooms	3.50
12	J. B. Bryan & Bro.	Soap	180.17
12	J. T. Walker Sons	Sand	1.20
12	Henry A. Clark & Son	Rubber erasers	3.75
16	E. L. Webster	Office rent, Sioux City, Iowa, July	20.25
16	Blake, Moffitt & Towne	Bock paper	1.80
16	Chadwick Copying Book Co.	Copying books	152.00
16	N. D. Hill & Sons	Mucilage and ink	3.25
16	P. Connor	Street-car tickets	2.60
16	John C. Parker	Stationery, etc.	1,330.30
16	Geo. W. Knox Express	Freight charges	.74

Expenditures Department of Agriculture for fiscal year ending June 30, 1893—Cont'd.

## WEATHER BUREAU—GENERAL EXPENSES—Continued.

Date.	Name.	Nature of payment.	Total.
1892.			
Aug. 16	Williams & Hanks	Machinery belt, etc.	\$39.12
16	Henry A. Clark & Son	Typewriter, etc.	85.00
17	Charles H. Pleasants	Chamois skins, etc.	116.05
17	Frank E. Semon	Services, July 26	20.00
17	Wm. Toden	Matches, brooms, etc.	10.40
17	Broadwater & Pepin	Office rent, Havre, Mont., July	30.00
17	Frank Ross	Services, July	7.75
17	Jol. Coley	Repairing United States telegraph line	7.00
17	Gregory Bros	Repairs to clocks, etc.	31.00
17	John C. Parker	Stationery, etc.	634.55
18	U. G. Meyers	Traveling expenses, July	18.60
18	P. T. Jenkins	do	4.25
18	J. B. Marbury	do	8.50
18	F. P. Chaffee	Traveling expenses, August	3.75
19	Pioneer News Co.	Mucilage	1.00
19	The E. S. Greeley Co.	Telegraph supplies	30.42
19	Frank H. Fee	Hauling	1.00
19	J. H. Smith	Repairing United States telegraph line	10.00
19	Henry Jones	do	3.00
19	John J. Veeder	do	3.00
19	C. H. Burdick	Labor and material	3.15
19	Central Ice Co.	Ice for July	6.20
19	H. T. Condee Implement Co.	Repairing typewriter	45.00
19	F. W. Devoe & Co.	Tubes of paint	2.00
19	W. T. Downs & Co.	Hauling	1.25
19	Broadwater & Pepin	Ice for July	3.10
19	Henry Ginnel & Co.	Oil for clocks	22.22
19	J. C. Morrell	Services for July	20.00
19	Robert McElroy	Office rent, San Francisco, Cal., July	90.00
19	M. W. Etheridge	Ferriage	3.50
19	Geo. W. Twiford	Resetting poles, etc.	1.50
19	A. B. Crane	Traveling expenses, August	4.25
19	O. G. Barron, manager	Coal	60.00
19	W. H. Hammon	Traveling expenses, August	5.75
19	Arctic Ice Company	Ice for July	4.65
19	Beverly Chapman	Repairing instrument shelter	4.00
19	Memphis Light and Power Co.	Rent of electric lights, July	5.06
19	C. C. Ames	Repairing United States telegraph lines	6.25
19	D. C. Hibbard	do	5.25
19	The Bancroft Co.	Mucilage	.90
19	The Singer Manufacturing Co.	Caligraph stand	1.00
19	Easton & Rupp	Stationery	585.00
19	J. W. Boteler & Son	Tumblers	2.25
19	J. Baumgarten & Son	Ink	12.50
19	James B. Lambie	Brass	2.28
20	F. M. Sherman	Labor and material	8.50
20	R. M. Mansford	Repairs to typewriter	47.50
22	John Schenck	Painting	4.50
22	Pennsylvania R. R. Co.	Transportation	68.02
22	Alexander McAdie	Traveling expenses, July	38.00
22	Homan & Roehl	Office chairs	5.00
22	Wm. E. Davis	Typewriter table	2.50
23	Fletcher & Hutchins Co.	Table	8.00
23	Thomas Crawford	Traveling expenses, July	13.35
23	E. A. Evans	Traveling expenses, Aug. 6	6.75
23	Caleb Cook	Machine oil	32.00
23	A. G. Elliot & Co.	Telegraph paper	67.50
23	United States Express Co.	Expressage	1.85
23	C. C. Pursell	Mucilage, etc.	9.00
23	M. G. Copeland & Co.	Answering pennants	15.00
23	J. W. Boteler & Son	Pitchers	33.00
24	Jno. M. Klein	Expenses, July	24.80
24	H. G. Cordley	Scissors, basins, etc.	25.97
24	Combination Toilet Stand Co.	Washing towels, July	1.50
24	J. L. Cottrell	Repairing letterpress, etc.	4.00
24	The Gayton Furniture Co.	Repairing chairs, etc.	56.75
24	H. C. Bate	Traveling expenses, July and August	54.75
24	Whitehead & Patterson	Painting and varnishing	13.00
24	J. H. Mills & Co.	Printers' supplies, etc.	80.88
24	P. C. Claffin	Index compasses	11.00
25	M. G. Copeland & Co.	Flags	184.00
30	John F. McLean	Matches, oil, etc.	9.90
30	J. K. Gill & Co.	Mucilage, ink, etc.	15.85
30	Rogers Manifold and Carbon Paper Co.	Carbon paper	45.00
30	I. L. Daniel	Services, July 1 to 6	1.20
30	Klipper, Webster & Co.	Desk, chairs, etc.	105.25
30	Lowry Hardware Co.	Hardware	10.95
30	P. J. Bolton	Painting	7.00

Expenditures Department of Agriculture for fiscal year ending June 30, 1893—Cont'd.

## WEATHER BUREAU—GENERAL EXPENSES.

Date.	Name.	Nature of payment.	Total.
1892.			
Aug. 30	W. S. Gosnell	Labor and material	\$31.00
30	Chas. H. Ward	Services as cleaner, August	12.50
30	G. Nees	Binding maps	3.50
30	E. Everett	Repairing clock	2.50
30	W. R. Peterson	Painting, etc	19.00
30	Moxley & Weaver	do	15.00
30	Williams & Hanks	Plumbago packing, etc	10.00
30	J. E. Hurley	Putting up jack shaft, etc	78.44
30	F. A. Schneider	Dark lanterns, etc	13.21
30	E. J. Brooks & Co.	Shears, etc	51.11
30	C. W. Ling	Drayage	1.00
30	F. G. Burnett	Repairing clock	2.50
30	George E. Franklin	Drayage, etc	4.05
30	J. H. Chesley & Co	Awning hooks, etc	55.45
30	Whiteside & Walton	Glycerin	2.25
31	J. K. Robinson <i>et al.</i>	Printing roll for August	2,348.08
31	James K. Jones <i>et al.</i>	Climatology for August	526.52
Sept. 1	Milton Whitney	Climatology from July 1 to Aug. 31	505.40
2	F. C. Pershing	Repairing desks	4.50
2	Keufel & Esser Co.	Indelible ink	12.00
2	L. M. Cline	Drayage	1.75
2	Hin Suey	Services as cleaner, August	5.00
2	W. M. Case	Services for August	40.00
2	W. S. Gosnell	Speaking tube, etc	22.00
2	do	Services as cleaner, August	5.00
2	Jol. Coley	Repairing United States telegraph line	2.00
2	Joseph Mills	Moving instrument shelter	5.00
2	Milton Young	Labor and material	8.00
2	W. A. Gilmore	Services, July 1 to Aug. 31	9.60
2	C. B. Fenton & Co.	Printers' supplies	90.35
2	J. C. Addison	Cardboard, etc	154.95
2	Royce & Marean	Electrical supplies	1,068.16
2	J. C. Entwistle	Cotton batting	20.00
2	Mark W. Harrington	Traveling expenses, August	43.30
3	C. B. Cottrell & Son	Repairs to litho press	36.00
3	Spokane Mercantile Co.	Window shades, etc	7.50
3	Charles J. Curry	Water cooler	2.50
3	Wiley B. Allen	Caligraph	80.00
3	B. Wolff	Office chairs	11.00
3	Isydore Strauss & Son	Desk, etc	42.50
3	C. T. Sylliaasen	Stand, etc	10.50
3	Cameron & Phillips	Stove	5.00
3	W. S. Holbrook	Office desk	30.00
3	J. M. Coe	Mucilage, ink, etc	5.00
3	Wetmore & Paddock	Carpet	19.87
3	W. B. Mann & Co.	Matches	.60
3	J. F. Maupin	Insulators	11.65
3	C. R. Johnson	Services, July 1 to Aug. 15	11.50
3	Chas. T. Carter & Co.	Pain brushes, etc	97.99
3	Alexander Paravim & Son	Rain gauge, packing boxes, etc	84.50
3	J. C. Entwistle	Engraving	5.00
6	J. H. Bunnell & Co.	Telegraph keys	28.80
6	The Redhead Norton Lthrop Co.	Mucilage and ink	4.15
6	Hale, Dingley & Co	Office rent, Montgomery, Ala., July	25.33
6	E. C. Easton	Traveling expenses	7.00
6	Broadwater & Pepin	Window shades, etc	13.50
6	Kaufman, Openheimer & Co.	Desk, etc	35.50
6	Robert McElroy	Office rent, San Francisco, August	90.00
6	do	Gas for July	4.80
6	D. G. Harvey	Brooms, matches, etc	19.16
6	Hamilton & Kendrick	Coal oil and matches	.90
6	Jno. M. Klein	Inspecting United States telegraph line	21.95
6	Fred. P. Low	Wool, matches, etc	25.50
6	Joseph A. Smith	Coal oil and locks	3.75
6	John Henry	Coal	3.90
6	Falkins & Hill	Labor and material	38.00
6	W. C. Fickert	Repairing desk, etc	9.25
6	C. A. Klinker & Co	Die on self-inker	1.50
6	Anthony Young	Services as cleaner, August	3.00
6	C. P. Williams	Labor and material	12.00
6	Adams Express Co.	Expressage	24.70
6	Israel W. Stone	Traveling expenses, August	11.50
6	R. E. Kerkam	do	24.55
6	F. J. Randolph	do	24.55
6	J. B. Marbury	Expenses, August	46.50
6	Norfolk and Western R. R. Co.	Transportation	14.75
6	New York and New England R. R. Co.	do	23.35

*Expenditures Department of Agriculture for fiscal year ending June 30, 1893—Cont'd.*

## WEATHER BUREAU—GENERAL EXPENSES—Continued.

Date.	Name.	Nature of payment.	Total.
1892.			
Sept. 6	Cyrus Ellenberger	Traveling expenses	\$3.00
6	S. F. Taylor	Stove	15.00
6	John Turnbull & Co	Rug	30.00
6	W. C. Fickert	Anemograph stand, etc.	10.00
6	Morris & Campbell	Labor and material	27.50
6	Hare & Holt	Stoves	30.00
6	The Bowditch and Prudden Co.	Office chairs, etc	25.00
6	H. B. Perry	Carpet, etc	21.70
6	F. M. Brown & Co.	Window shade, etc.	2.48
6	John R. Nye & Co.	Table	12.00
6	E. Redding & Son	Stovepipe, etc.	2.60
6	R. Eacrett, sr.	Office chairs	15.75
6	F. J. Coates	Mucilage and ink	5.70
6	S. J. Lutz & Co	Wood, oil, etc	47.50
6	Geo. E. Hunt	Expenses, August	46.50
6	Charles Gregor	Services as cleaner, August	5.00
6	The North Carolina Car Co.	Table	10.00
6	J. D. Free, jr.	Duplicating ink, etc	263.15
6	J. H. Mills & Co.	Printing supplies	17.00
6	Geo. W. Knox Express	Freightage	3.74
6	F. A. Schneider	Lantern globes, etc	17.25
7	Thadeus Davids Co	Stamping ink	72.00
7	George Weir & Co.	Printing supplies	32.10
7	Frederick Printing and Stationery Co.	Mucilage, ink, etc	9.72
7	J. N. Applebaugh	Services, August	36.00
7	Griffin & Reed	Mucilage, ink, etc	12.00
7	W. S. Jenks	Rain gauge	2.50
8	South Carolina Rwy. Co.	Transportation	4.85
8	R. Q. Grant	Express charges	7.45
8	J. M. Sherier	Traveling expenses	13.36
8	Atchison, Topeka and Santa Fé Rwy. Co.	Transportation	48.75
8	A. Williams & Co.	Mucilage and ink	4.70
8	Patrick Straw	Services as cleaner, August	5.00
8	J. Heizman	Repairing regulator	2.50
8	Lou E. Case	Services, July 1 to Aug. 15	4.60
8	Central Ice Co.	Ice for August	6.20
8	N. A. Neisins	Labor and material	5.00
8	John C. Parker	Stationery	858.01
8	M. G. Copeland & Co.	Flag pole	35.00
10	J. M. Martin	Repairing desk, etc.	9.50
10	J. F. Pickett	Services, July 1 to Aug. 31	12.40
10	Miles Jackson	Services as cleaner, August	5.00
10	J. H. Cook	Moving office furniture, etc	122.00
10	Emma Ling	Services as cleaner, August	5.00
10	Geo. Ryneal, jr.	Lamps, etc	241.50
10	do	Panes of glass	3.09
10	Royce & Marean	Electrical supplies	9.36
10	Henry A. Clark & Son	Typewriter	85.00
10	Hugh Reilly	Oil cans	2.50
14	B. S. Pague	Traveling expenses, August	36.74
14	P. T. Jenkins	Expenses, August	46.50
14	Park Morrill	do	46.50
14	F. H. Connolly	Flour	1.75
14	W. G. Duckett	Alum	1.50
14	Wyoming Midland Telegraph Co.	Transmitting messages, July	11.88
14	George E. Grimes	Expenses, August	7.50
14	N. Guerovich & Co	Labor and material	9.00
14	Thos. Robinson	Services for August	25.00
14	J. J. Kellher	Traveling expenses, August	5.25
14	L. H. Murdock	do	3.10
14	S. S. Rockwood	do	9.56
14	N. B. Conger	Traveling expenses, September	5.00
14	Louisville and Nashville R. R. Co.	Transportation	20.15
14	E. S. Greeley & Co.	Battery supplies, etc.	294.70
14	Whiteside & Walton	Printers' supplies	2.89
14	Jas. W. Queen & Co.	Field glass	27.00
14	Seth Thomas Clock Co.	Clock movement	10.00
14	Lake Superior Transit Co.	Freight charges, July	.45
14	Tissot & Schultz	Stencil paper	38.29
14	Thompson C. Gill & Co.	Iron wire	221.07
14	Walter Q. Luscombe	Hire of team	2.00
14	J. A. Miller	Chairs	3.00
14	Smith & Swainson	Office rent, Cleveland, Ohio, August	10.00
14	F. L. Jackson, agent	Office rent, Yankton, S. Dak., August	24.75
14	Broadwater & Pepin	Office rent, Havre, Mont., August	30.00

Expenditures Department of Agriculture for fiscal year ending June 30, 1893—Cont'd.

## WEATHER BUREAU—GENERAL EXPENSES—Continued.

Date.	Name.	Nature of payment.	Total.
1892.			
Sept. 14	Broadwater & Pepin	Ice for August	\$3.10
14	W. T. Ottaway	Labor and material	60.00
14	B. A. Richardson	do	4.00
14	Combination Toilet Stand Co.	Washing towels, August	1.50
14	J. C. Morrell	Services for August	20.00
14	The Sentinel Co.	Binding weather maps	3.00
14	Jol. Coley	Repairing U. S. telegraph line	1.00
14	J. W. Baur	Expenses, Aug. 28 to Sept. 2	4.50
14	H. J. Cox	Expenses, Aug. 30 to Sept. 2	9.85
14	P. J. Bolton	Varnishing	2.00
14	Ohio and Mississippi Rwy. Co.	Freight charges	9.31
14	Memphis Light and Power Co.	Rent of electric lights, August	6.09
14	W. B. Moses & Sons	Carpet, rug, etc.	94.58
14	Norfolk and Washington Steamboat Co.	Freight charges	.71
14	Adams Express Co.	Expressage, August	12.65
14	W. T. Wallace	Coal	75.00
14	Henry Yoste	Repairing clock	1.50
14	The Perry Stove Co.	Argand burner fixtures	4.25
14	J. B. Lippincott Co	Mucilage and ink	5.90
14	A. J. Weldener	Matches and oil	2.05
14	W. H. Buckley	Labor and material	37.00
14	Fred. P. Low	do	23.00
14	do	do	15.00
14	Richard Titus	Services as cleaner, August	4.00
14	The Manhattan Supply Co.	Dusters, lanterns, etc.	585.80
14	J. H. Bunnell & Co.	Electrical supplies	386.50
14	Ed. Ockels	Making instrument stand	14.00
14	Arctic Ice Co.	Ice for August	4.65
14	Frank Smyth	Labor and material	40.00
14	Remington Typewriter Co.	Repairing typewriter	5.00
14	John Schultzback	Mailers	30.00
14	J. H. Mills & Co.	Printers' supplies	43.20
14	Seymour Transportation Co.	Transportation	4.50
14	The Marquette Furniture Co.	Revolving chair	9.00
14	E. H. Emery	Traveling expenses	4.15
14	Park Morrill	do	8.25
14	D. P. McCallum	do	3.45
15	E. J. Brooks & Co.	Halyards	16.50
15	W. L. Dowdell & Co.	Coal	13.75
16	H. E. Wilkinson	Panes of glass	.50
16	M. Lovengreen	Desk table	15.00
16	L. R. Decker	Labor and material	7.50
16	P. Connor	Car tickets	2.70
16	W. G. Hamilton	Bulletin board, etc.	20.00
16	I. A. Shedd	Coal oil and matches	7.58
16	Whiteside & Walton	Sassafras	.80
16	Thomas Ferrill	Services as cleaner, July	3.00
16	A. E. Hackett	Expenses, Sept. 8 and 9	2.50
16	Isabella Reinhart	Services as cleaner, August	3.00
16	Pennsylvania R. R. Co.	Transportation	150.92
19	A. Nicol & Sons	Mucilage, ink, and matches	4.82
19	Henry Beckman & Son	do	8.75
19	Williams & Hanks	Belting	19.60
19	Forsberg & Murray	Forging iron clamps, etc	8.00
19	F. P. May & Co.	Fairbanks scale	7.50
19	John Moran	Lead	.75
19	W. S. Jenks	Snow gauge, etc	12.75
19	Wyoming Midland Telegraph Co.	Transmitting messages, August	11.08
19	W. C. Sturk	Stoves, etc	67.80
19	Thos. J. Cowry	Drayage	4.58
19	Easton & Rupp	Twine, ink, and wax	82.50
19	Royce & Marean	Battery cells	3.00
19	Wyckoff, Seamans & Benedict	Remodeling typewriter	35.00
21	J. O. Gwynn	Traveling expenses	13.00
21	Walter Scott & Co.	Repairing press	52.50
21	Peter Paul & Bro.	Caligraph	85.00
21	S. W. Glenn	Traveling expenses	10.00
21	M. G. Copeland & Co.	Flags	68.56
23	Charles Ewen Johnson & Co.	Ink	46.31
23	Concord and Montreal R. R.	Transportation	5.90
23	Boston and Maine R. R. Co.	do	1.00
23	J. H. Thiemeier & Co.	Packing boxes	389.70
23	Flint and Pere Marquette R. R. Co.	Transportation	4.50
23	George Meier & Co.	Printers' supplies	7.00
23	W. L. Day	Baggage express	.75
23	Baltimore and Ohio R. R. Co.	Transportation	14.25

*Expenditures Department of Agriculture for fiscal year ending June 30, 1893—Cont'd.*

WEATHER BUREAU—GENERAL EXPENSES—Continued.

Date.	Name.	Nature of payment.	Total.
1892.			
Sept. 23	T. F. Townsend	Traveling expenses	\$19.00
23	W. B. Moses & Sons	Linoleum	196.98
23	Norfolk and Washington Steamboat Co.	Freight charges	5.17
23	S. S. Bassler	Traveling expenses	5.75
26	The Enterprise Telegraph Co.	Transmitting messages	2.50
26	Chicago, Burlington and Northern R. R. Co.	do	11.38
26	New England Telephone and Telegraph Co.	do	2.30
26	S. H. Wright	Labor and material	5.83
26	Thomaston and Barnesville Telegraph Line.	Transmitting messages, July	2.50
26	Philadelphia, Reading and Pottsville Telegraph Co.	do	8.61
26	The Great Northwestern Telegraph Co.	do	156.33
26	Clarksburg and Western Telegraph Co.	do	16.40
26	Moosehead Lake Telegraph Co.	do	5.00
26	Philadelphia, Reading and Pottsville Telegraph Co.	Transmitting messages, August	9.12
26	Central Union Telegraph Co.	Telephone service, July 1 to Sept. 30	81.00
26	Thomaston and Barnesville Telephone Line	Transmitting messages, August	2.70
26	Black Hills Telegraph and Telephone Co.	Telephone service, July 1 to Sept. 30	21.00
26	G. Barba & Son	Repairing rain gauges	6.69
26	Norfolk, Newbern and Washington, N. C. Direct Line.	Freight charges	6.79
26	Boston and Maine R. R.	Transportation	1.30
26	J. P. Slaughter	Traveling expenses	8.75
26	Clarksburg and Western Telegraph Co.	Transmitting messages, August	17.00
26	E. C. Meredith	Traveling expenses	4.00
26	W. M. Case	Services, September	40.00
26	Florida, Central and Pennsylvania R. R. Co.	Transportation	19.80
26	Ocean Towboat Lines Telegraph Co.	Services, August	30.00
27	Stillwater and Mechanicsville St. Rwy. Co.	Transmitting messages, July and August	3.80
27	New England Telephone and Telegraph Co.	Transmitting messages, August	2.60
27	M. E. Mulloy	Services, Sept. 12 to 17	24.30
27	J. C. Fitch	Water furnished, July 1 to Sept. 30	4.50
27	Hin Suey	Services as cleaner, July 1 to Sept. 30	5.00
27	Pacific Telephone and Telegraph Co.	Transmitting messages, July 1 to Sept. 30	22.50
27	Empire State Telephone and Telegraph Co.	Telephone service, July 1 to Sept. 30	15.00
27	Empire State Telephone and Telegraph Co.	Transmitting messages, July 1 to Sept. 30	13.50
27	J. W. Thompson	Rent of telephone, July 1 to Sept. 30	15.00
27	Pennsylvania Telephone Co.	do	21.00
27	J. P. Banks	Services, July 1 to Sept. 30	23.00
27	Robert G. Goffin	do	9.00
27	W. S. Gosnell	Services as cleaner, September	5.00
27	Jordan & Taylor	Electric-light lanterns	22.00
27	M. E. Mulloy	Window sashes, etc.	13.56
27	M. E. Williams	Office desk	30.00
27	Mark W. Gill	Caligraph	68.00
30	J. K. Robinson <i>et al.</i>	Printing roll for September	2,280.54
30	James K. Jones <i>et al.</i>	Salaries for September	522.00
30	P. T. Jenkins	Expenses for September	45.00
30	J. B. Marbury	do	45.00
	Total first quarter		26,897.64
Oct. 1	Milton Whitney	Salary for September	244.60
1	S. H. Wright	Services, July 15 to Aug. 14	46.50
1	C. H. Darragh	Stencil paper	2.88
1	Central Type Foundry	Printers' supplies	32.40
1	H. Martin	Brush hook, etc.	2.00
1	The E. S. Greeley Co.	Copper battery, etc.	3.78
1	O. P. Helm	Desk	30.00
1	E. Kirkpatrick	Chair	7.00
1	T. E. Howes & Co.	Oil, etc.	5.15
1	W. G. Banks	do	9.08

Expenditures Department of Agriculture for fiscal year ending June 30, 1893—Cont'd.

## WEATHER BUREAU—GENERAL EXPENSES—Continued.

Date.	Name.	Nature of payment.	Total.
1892.			
Oct. 1	J. H. Carlin	Brooms, oil, etc.	\$17.30
1	Chas. A. Muddiman	Lamps, etc.	34.48
1	J. C. Entwistle	Engraving	5.00
1	John C. Parker	Manilla envelopes, etc.	158.65
1	C. B. Fenton & Co	Frames for rollers	127.50
3	J. D. Free, jr	Milleographs	334.00
4	Chas. Cooper & Co.	Ammonia	5.50
4	Chas. J. Cary & Co.	Engraving plates	40.00
4	Homer W. Styron	Rent of office, July 1 to Sept. 30	38.62
4	F. E. Warren	Rent of rooms, July 1 to Sept. 30	91.90
4	Abbie S. Ingalls	do	83.83
4	Baer & Bloch	do	87.50
4	Fresno Loan and Savings Bank	do	100.00
4	R. McLaughlin	do	78.04
4	Charles E. Bryant, receiver	do	78.25
4	The Kearney Opera House Co	do	75.00
4	Catherine Wilson	do	104.82
4	Matt Borland	do	90.00
4	John H. Clune	do	49.50
4	A. Schneider	do	45.00
4	Columbus Board of Trade	do	100.00
4	C. M. Beeson	do	97.91
4	J. I. Franklin	Furniture, etc.	133.75
4	W. C. Stark	Hardware	14.34
4	Melina Wilcke	Office rent, July 1 to Sept. 30	56.25
4	American Exchange Bank	do	114.45
4	Ernest Bentz	Zinc	16.25
4	John C. Parker	Manilla paper	256.00
4	Wm. H. Carden	Services, July 1 to Sept. 30	23.00
4	C. H. Pond	Type, etc.	100.25
4	George French	Rent of rooms, July 1 to Sept. 30	86.37
5	T. Roti	Repairing telegraph line	6.00
5	Pay roll, Harrisburg, Pa	Substation salaries, July 1 to Sept. 30	92.00
5	John A. Barker	Services as cleaner, July 1 to Sept. 30	9.00
5	W. J. Berry	Repairing anemometer	2.00
5	James Joice	Services as cleaner, July 1 to Sept. 30	3.00
5	J. A. Hatfield	Services as displayman, July 1 to Sept. 30	30.00
5	E. Blondi	do	30.00
5	J. M. Gallaher	do	15.00
5	Fred. P. Low	do	11.25
5	A. J. Mulligan	do	27.00
5	Charles Gregor	Services as cleaner, July 1 to Sept. 30	5.00
5	Joseph G. Uptegrove	Services as displayman, July 1 to Sept. 30	30.00
5	F. W. Denison	do	30.00
6	Newport News and Mississippi Valley Co.	Transmitting messages, July	5.60
6	Charleston and Savannah Rwy. Co.	Transportation	4.60
6	New York and New England R. R. Co.	do	12.25
6	Pacific Postal Telegraph Co.	Transportation of messages, July	25.03
6	Jacksonville, Tampa and Key West Rwy. Co.	Transportation	5.60
6	Cornwell Steamship Co.	do	35.00
6	The Enterprise Telegraph Co.	Transmitting messages, August	2.70
6	Fred. Harris	Repairing United States Telegraph	2.50
6	The Baltimore and Ohio Southwestern R. R. Co.	Transportation	14.00
6	New York, Connecticut and Hudson River R. R. Co.	do	36.32
6	Sadie Robinson	Washing towels for September	12.50
6	Pay roll, St. Paul, Minn.	Substation salaries, July 1 to Sept. 30	46.00
6	Pay roll, Woods Holl, Mass	do	40.00
6	Pay roll, Oswego, N. Y.	do	81.00
6	Pay roll, Wilmington, N. C.	do	128.20
6	H. C. Frankenstein	Cartage of maps	1.00
6	Chicago and Northwestern Rwy. Co.	Transportation	55.50
6	Chas. A. Smith	Traveling expenses	6.45
6	Thos. Robinson	Services as displayman, September	25.00
6	Norfolk and Washington (D. C.) Steamboat Co.	Transportation	10.50
6	Richmond and Danville R. R. Co.	do	30.10
6	C. F. R. Wappenhaus	Traveling expenses	5.50
8	W. B. Stockman	Drayage	3.57
8	Thomas Sweeney	Rent of room, July 1 to Sept. 30	100.76
8	Port Angeles Traffic and Transfer Co.	Repairing United States telegraph line	14.00

Expenditures Department of Agriculture for fiscal year ending June 30, 1893—Cont'd.

## WEATHER BUREAU—GENERAL EXPENSES—Continued.

Date.	Name.	Nature of payment.	Total.
1892.			
Oct. 8	Wallawalla Lodge, No. 56, I. O. O. F.	Rent of rooms, July 1 to Sept. 30	\$84.87
8	B. F. Nickerson	Services, Sept. 8 to 10	7.50
8	The Sedgwick Building Investment Co.	Rent of rooms, July 1 to Sept. 30	90.75
8	G. R. Kendrick	Services repairing United States telegraph	16.25
8	Thos. Watson	do	10.00
8	P. Laveaga, county treasurer	Rent of rooms, July 1 to Sept. 30	67.06
8	W. H. Lyman	Services repairing flagstaff	5.00
8	Wm. B. Burford	Services binding weather maps	2.00
8	S. Marks & Co.	Rent of rooms, July 1 to Sept. 30	75.50
8	J. E. Lanonette	Repairing telegraph line	5.00
8	Walker & Hall	Rent of rooms, July 1 to Sept. 30	70.00
8	Wm. A. Johnson	Services as displayman, July 1 to Sept. 30	30.00
8	Robert McElroy	Rent of rooms for September	90.00
8	Jacob Kamm	Rent of rooms, July 1 to Sept. 30	75.00
8	L. G. Nesmith	do	120.00
8	Puget Sound Coöperative Colony.	do	59.00
8	Paine Brothers	do	73.95
8	J. C. De Lany	do	120.00
8	Columbian Building Co.	do	87.50
8	Cone & Kimball Co.	do	100.99
8	Wm. Bell	Traveling expenses	8.50
8	J. M. Sherier	do	4.60
8	Union Ice Co.	Ice	5.85
8	Charles Pratt	Repairing chairs	2.50
8	Strickland Printing Co.	Binding weather maps	9.75
8	A. H. H. Stuart	Rent of rooms, July 1 to Sept. 30	120.00
8	F. L. Ewing	Ice, July 1 to Sept. 30	27.60
8	Chas. M. Shull	Repairing, etc., instrument shelter	5.00
8	A. P. Eagleston	Rent of rooms, July 1 to Sept. 30	100.00
8	Henry Moots	Repairing chairs	2.00
8	Andrew McMaster	Labor and material on instrument shelter	12.00
8	National Bank of Commerce	Rent of rooms, July 1 to Sept. 30	112.00
8	J. R. Williams	Express charges	3.00
8	Charles Johnson & Co.	Printing ink	7.50
8	Vernon H. Harris	Rent of rooms, July 1 to Sept. 30	16.25
8	Buffalo Board of Trade	do	142.06
8	Pythian Land and Building Association.	do	75.25
8	Smith & Swainson	Rent of rooms for September	10.00
8	Jennie Pritchett	Services as cleaner for September	6.00
8	F. M. Brown & Co.	Rent of rooms, July 1 to Sept. 30	100.00
8	Pay roll, Washington D. C.	Substation salaries, July 1 to Sept. 30	33.40
8	C. F. R. Wauppenhaus	Cartage	1.10
8	F. A. Schneider	Hardware	10.42
8	Charles F. Carter & Co.	Chimneys	7.20
12	Steamer G. W. Danielson	Freight charges in July	8.35
12	Cleveland, Cincinnati, Chicago and St. Louis Rwy Co.	do	1.04
12	Star Union Line	do	6.86
12	Pennsylvania R. R. Co.	do	1.73
12	Savannah, Florida and Western Rwy. Co.	do	2.09
12	Lake Superior Transit Co	do	.41
12	George Probert	Cleaning clock	2.00
12	Hudson Symington	Laying carpet	2.15
12	Portland Gaslight Co.	Gas, July 1 to Sept. 30	3.75
12	The Oregon Telephone and Telegraph Co.	Telephone rental, July 1 to Sept. 30	22.50
12	Robert McElroy	Gas for September	5.40
12	Clark & Blanchard	Repairing caligraph	1.00
12	Arthur Helton	Relettering frames	3.50
12	City Gaslight Co. Norfolk, Va.	Electric lights, July 1 to Sept. 30	6.00
12	O. H. Willis	Water furnished, July 1 to Sept. 30	12.00
12	Iowa Union Telephone Co.	Telephone exchange, Aug. 1 to Sept. 30	8.00
12	The Central District and Printing Telegraph Co.	Telephone exchange, July 1 to Sept. 30	15.00
12	Thomas Cleary	Services as cleaner, July 1 to Sept. 30	17.26
12	Delaware and Atlantic Telephone and Telegraph Co.	Telephone exchange, July 1 to Sept. 30	12.00
12	Pay roll, New Haven, Conn.	Substation salaries, July 1 to Sept. 30	74.50
12	Pay roll, Savannah, Ga.	do	281.40
12	Pay roll, Chattanooga, Tenn.	do	196.60
12	S. S. Bassler	Meals and lodging for September	45.00
12	John C. Parker	Onion skin paper	937.50
12	J. D. Free, jr.	Plates for milleographs	18.00
12	Chicago, Burlington and Northern R. R. Co.	Transmitting messages, August	11.74

Expenditures Department of Agriculture for fiscal year ending June 30, 1893—Cont'd.

## WEATHER BUREAU—GENERAL EXPENSES—Continued.

Date.	Name.	Nature of payment.	Total.
1892.			
Oct. 12	New England Telephone and Telegraph Co.	Exchange service and rent of telephone, July 1 to Sept. 30.	\$12.50
12	Vandalia Line	Freight charges	.87
12	J. B. Blaloch	Rent of rooms for July	24.40
12	E. H. Jamison	Rent of rooms for August and September	42.80
12	Bell Telephone Co. of Philadelphia.	Telephone exchange, July 1 to Sept. 30	30.00
12	Sunset Telephone and Telegraph Co.	Rent of telephone, July 1 to Sept. 30	15.00
12	R. S. Dodson	Rent of rooms, July 1 to Sept. 30	131.25
12	New York and Pennsylvania Telephone and Telegraph Co.	Exchange service, July 1 to Sept. 30	6.00
12	Duluth Telephone Co.	do	15.00
12	The Bell Telephone Co. of Buffalo.	Rent of telephone, July 1 to Sept. 30	17.50
12	The Southern New England Telephone Co.	Rent of telephone, etc., July 1 to Sept. 30	31.25
12	J. G. Payne, attorney	Rent of rooms, July 1 to Sept. 30	63.23
12	B. P. Nickerson	Repairing telegraph line	5.00
12	Chicago, Burlington and Quincy R. R. Co.	Transportation	28.15
12	Old Dominion Steamship Co.	do	16.00
12	A. P. Rohde	Repairing flagstaff	6.00
12	The A. P. Miller Co.	Chairs	6.00
12	Constitution Job Office	Printing Crop Bulletin, July 1 to Sept. 30	39.00
12	Atlanta Telephone Exchange	Rent of telephone, July 1 to Sept. 30	17.00
12	Miles Jackson	Services as elevator for September	5.00
12	East Tennessee Telephone Co.	Exchange service, July 1 to September 30	15.00
12	P. Connor	Street-car tickets	2.60
12	E. J. Gifford	Services as river observer, July 1 to Sept. 30	23.00
12	The Cleveland Telephone Co.	Exchange service, July 1 to Sept. 30	18.00
12	C. E. Haynes	Services as cleaner, July 1 to Sept. 30	15.00
12	Telephone and Telegraph Construction Co.	Rent of telephone, July 1 to Sept. 30	12.00
12	The Northwestern Telephone Exchange Co.	do	18.00
12	City and Suburban Telegraph Association	Telegraph service, July 1 to Sept. 30	25.00
12	Missouri and Kansas Telephone Co.	Transmitting messages	12.00
12	Telephone and Telegraph Construction Co.	do	10.00
12	James Evans	Services as cleaner, July 1 to Sept. 30	9.00
12	Richard Titus	do	4.00
12	Emma Ling	do	5.00
12	The Atchison, Topeka and Santa Fe R. R. Co.	Transportation	2.90
12	Wm. Broyles	Painting instrument shelter	4.50
12	M. G. Copeland & Co.	Flags	768.84
12	A. H. Webb	Services as displayman, July 1 to Sept. 30	24.00
12	Pay roll, Memphis, Tenn., substation.	Salaries, July 1 to Sept. 30	277.00
12	H. C. Warner	Repairing clock	4.00
12	J. G. Whitfield	Services in graduating river gauge, etc.	5.00
12	Sussfeld, Lorsch & Co.	Telescope	60.00
12	Challs Hayman	Services as cleaner, July 1 to Sept. 30	7.50
12	Geo. N. Salisbury	Repairing thermograph	1.00
12	Chicago Auditorium Assn.	Rent of rooms, July 1 to Sept. 30	172.56
12	Chicago Telephone Co.	Rent of telephone, July 1 to Sept. 30	31.25
12	P. M. De Vitt	Rent of rooms, July 1 to Sept. 30	100.62
12	B. S. Williams	do	66.00
12	Albert Martv	do	169.49
12	First National Bank, Bismarck N. Dak.	do	99.00
12	Pascual Moreno	Services as janitor, July 1 to Sept. 30	6.00
12	S. A. Raymond	Rent of rooms, July 1 to Sept. 30	175.00
12	Forbes & Breeden	Furniture	85.00
12	Stock Growers' National Bank	Rent of rooms, July 1 to Sept. 30	37.50
12	Margaret Parmentier	do	75.00
12	Staples & Pelan	do	57.12
12	Pay roll, Raleigh, N. C., substation.	Salaries, July 1 to Sept. 30	92.00
12	S. P. Tolleson	Office case	9.50
12	Amarillo Improvement Co.	Rent of rooms, July 1 to Sept. 30	66.75
12	Broadwater & Pepin	Rent of rooms, September	30.00
12	do	Ice, September	3.00
12	Clarence Gentzen	Services as cleaner, July 1 to Sept. 30	9.00
12	Comb Toilet Stand Co.	Toilet services for September	1.50
12	J. C. Entwistle	Rags	8.00
14	Ed. Okels	Lumber	6.00

*Expenditures Department of Agriculture for fiscal year ending June 30, 1893—Cont'd.*

WEATHER BUREAU—GENERAL EXPENSES—Continued.

Date.	Name.	Nature of payment.	Total.
1892.			
Oct. 14	Pay roll, Jacksonville, Fla., substation.	Salaries, July 1 to Sept. 30.....	\$45.00
14	H. Irwin .....	Railroad fare and berth.....	2.50
14	Paul Wilson .....	Rent of rooms, July 1 to Sept. 30.....	84.00
14	James Ballard .....	Services as lineman, Sept. 7 to 30.....	4.80
14	Loeffelholz & Co. ....	Signal lamps.....	330.00
14	H. Overholser .....	Rent of rooms, July 1 to Sept. 30.....	101.75
14	Riley Watson .....	..... do .....	103.53
14	Julien P. Friez .....	Surface gauge, etc.....	28.18
14	Thomas Duncan .....	Services as displayman, July 1 to Sept. 30.....	24.00
14	Daniel Hoesli .....	Washing towels, July 1 to Sept. 30.....	5.25
14	J. N. Applebaugh .....	Services as displayman, July 1 to Sept. 30.....	36.00
14	H. D. Olds .....	Services, rainfall observer, July 1 to Sept. 30.....	9.20
14	W. B. Stack .....	Services, rainfall observer, July 1 to 17.....	3.20
14	Great Southern Telephone and Telegraph Co. ....	Telephone service, July 1 to Sept. 3.....	15.00
14	Lynchburg Telephone Exchange.	Rent of telephone, July 1 to Sept. 30.....	10.00
14	D. S. Hutchinson .....	Rent of rooms, July 1 to Sept. 30.....	85.74
14	E. A. Clarke & Co. ....	..... do .....	77.82
14	George E. Gunt .....	Recasting rollers, etc.....	2.05
14	Hanna L. Simmons .....	Rent of rooms, July 1 to Sept. 30.....	70.00
14	W. H. Wood & Co. ....	..... do .....	75.00
14	Chamber of Commerce Building Co. ....	..... do .....	75.21
14	James Baker .....	..... do .....	68.75
14	F. L. Jackson, agent .....	..... do .....	24.75
14	M. J. Metcalf .....	..... do .....	6.00
14	First National Bank of Palestine, Tex. ....	..... do .....	78.50
14	W. C. Stark .....	Plumbers' supplies.....	12.40
14	Nic. Tengg .....	Ink and mucilage.....	2.30
14	Geo. Dulling .....	Matches, oil, etc.....	5.25
14	Alamo Fire Insurance Co. ....	Rent of rooms, July 1 to Sept. 30.....	75.00
14	Memphis Light and Power Co. ....	Rent of electric lights for September.....	6.12
14	Southern Bell Telephone and Telegraph Co. ....	Savannah, telephone exchange, July 1 to Sept. 30.....	18.00
14	..... do .....	Charleston telephone exchange, July 1 to Sept. 30.....	15.00
14	Pay roll, Kansas City, Mo., substation.	Salaries, July 1 to Sept. 30.....	95.00
14	Pay roll, Shreveport, La. ....	..... do .....	92.75
14	Missouri and Kansas Telephone Co. ....	Telephone exchange, July 1 to Sept. 30.....	18.00
14	Nebraska Telephone Co. ....	..... do .....	15.00
14	Erie Telegraph and Telephone Co. ....	..... do .....	12.00
14	Asa Dasher .....	Ice, July 1 to Sept. 30.....	18.40
14	S. L. Dasher .....	Services as cleaner, July 1 to Sept. 30.....	4.50
14	J. T. Harper .....	Kerosene oil, etc.....	2.90
14	C. A. Morris .....	Oil.....	18.00
14	Wm. Ballantyne & Sons .....	Stationery.....	345.58
15	Savannah, Florida and Western Rwy Co. ....	Transportation.....	5.15
15	E. J. Brooks & Co. ....	Twine, etc.....	190.76
15	..... do .....	Halyards, etc.....	1.65
15	Pacific Postal Telegraph Cable Co. ....	Transmitting messages, August.....	26.33
15	..... do .....	Transmitting messages, July and August.....	12.41
15	C. H. Burdick .....	Repairing furniture.....	12.50
15	James R. Hobbs .....	Transportation.....	3.50
15	Robert C. Orrell .....	Livery hire.....	3.00
15	The Great North Western Telegraph Co. ....	Transmitting messages, August.....	169.16
15	Jol Coley .....	Services, linemen for September.....	14.00
15	The Concord and Montreal R. R. Co. ....	Transportation.....	15.55
15	W. H. Renear .....	Livery hire, July 1 to Sept. 30.....	17.40
15	A. R. Willmann .....	Repairing vase.....	1.25
15	Nelson Cuyler, Jr. ....	Services, Sept. 7.....	5.00
15	P. A. Kolstad & Bro. ....	Repairing clock.....	1.50
15	James Cameron .....	Livery hire.....	1.50
15	Chas. R. Grinnell .....	Boat hire.....	3.00
15	F. L. Gifford .....	Repairing instrument shelter.....	14.00
15	N. A. Parker .....	Furniture.....	6.05
15	Pay roll, Narragansett Pier Co., substation.	Salaries, July 1 to Sept. 30.....	60.00
15	H. M. Knowles .....	Services as repairman, July 10-11.....	80.00

## EXPENDITURES IN DEPARTMENT OF AGRICULTURE. 131

Expenditures Department of Agriculture for fiscal year ending June 30, 1893—Cont'd.

## WEATHER BUREAU—GENERAL EXPENSES—Continued.

Date.	Name.	Nature of payment.	Total.
1892.			
Oct. 15	Pay roll, Louisville, Ky., sub-station.	Salaries, July 1 to Sept. 30.	\$17. 60
15	M. Cotter	Ice, Aug. 1 to Sept. 30.	6. 10
15	do	Hauling supplies.	2. 50
15	The Colorado Fuel Co.	Coal.	88. 80
15	Patrick Strat.	Services as cleaner for September.	5. 00
15	John C. Parker	Envelopes.	94. 70
15	James E. Turton	Map frames.	157. 08
15	Wm. R. Bushby	Meals and lodging, Oct. 3 to 10.	19. 90
15	B. H. Bronson	Drayage, Sept. 4 to 15.	3. 00
15	E. F. Hallack	Rent of rooms, July 1 to Sept. 30.	150. 00
15	Tissot & Schultz	Screws.	43. 28
15	W. L. R. A. & E. H. Andres	Rent of rooms, July 1 to Sept. 30.	59. 32
15	Pay roll, Boston, Mass., sub-station.	Salaries, July 1 to Sept. 30.	432. 75
15	McCommick & Bates	Cartage.	. 75
15	Henry Siegel	Drayage.	1. 00
15	M. E. Conway	Rent of rooms, July 1 to Sept. 30.	37. 74
15	People's Dispatch Co.	Freight transportation in August.	1. 13
15	John M. Williams	Hauling, July and August.	7. 82
15	do	Hauling, September.	10. 84
15	Forsberg & Murray	Wind vanes, etc.	514. 75
17	Hudson River Telephone Co.	Transmitting messages, July 1 to Sept. 30.	15. 35
17	Ocean Tow Boat Lines Telegraph Co.	Transmitting signals, September.	30. 00
17	East Louisiana R. R. and Telegraph Co.	Transmitting telegrams, Aug. 16 to Sept. 30.	4. 60
17	Breaux Bridge Tel. Co.	Transmitting messages, July 1 to Sept. 30.	7. 90
17	M. Cotter	Repairing U. S. telegraph, July 1 to Sept. 30.	38. 75
17	Edward Drinkwater	Telegraph poles, etc.	8. 00
17	Herman Drinkwater	Repairing telegraph lines.	10. 00
17	L. H. Murdock	Car fare for September.	3. 00
17	Pay roll, Augusta, Ga., substation.	Salaries, July 1, to Sept. 30.	193. 00
17	P. T. Jenkins	Traveling expenses, Sept. 30 to Oct. 1.	5. 75
17	Pay roll, Charleston, S. C., substation.	Salaries, July 1 to Sept. 30.	279. 60
17	Pay roll, Pittsburg, Pa.	do	436. 80
17	Salt Lake Board of Trade	Rent of rooms, July 1 to Sept. 30.	137. 50
17	Gibson Telegraph Line	Transmitting messages, July 1 to Sept. 30.	15. 60
17	Real Estate and Law Building Co.	Rent of rooms, July 1 to Sept. 30.	44. 86
17	Pay roll, Cincinnati, Ohio, substation.	Salaries, July 1 to Sept. 30.	320. 90
17	Royce & Marean	Electrical supplies.	387. 24
17	Easton & Rupp	Cardboard.	27. 50
17	Wm. Ballantyne & Sons	Paper for printing.	394. 80
17	James B. Lambie	Tacks.	1. 60
18	The First National Bank, Moorhead.	Rent of rooms, July 1 to Sept. 30.	66. 31
18	Geo. Harris	Services as cleaner, July 1 to Sept. 30.	15. 00
18	Cotton Exchange Building Co.	Rent of rooms July 1 to Sept. 30.	120. 00
18	Geo. W. Williams	do	117. 93
18	Pay roll, Cairo, Ill., substation.	Salaries, July 1 to Sept. 30.	216. 00
18	J. B. Grady	Rent of rooms July 1 to Sept. 30.	105. 94
18	Little Rock Board of Trade	do	97. 70
18	Great Southern Telephone Co.	Transmitting messages, July 1 to Sept. 30.	15. 00
18	The Ohio Valley Telephone Co.	Telephone exchange, July 1 to Sept. 30.	18. 00
18	The Southwestern Telegraph and Telephone Co.	do	12. 00
18	Brush Electric Light and Power Co.	Electric lights, July 1 to Sept. 30.	13. 75
18	Southern Bell Telephone and Telegraph Co.	Telephone exchange, Juty 1 to Sept. 30.	15. 00
18	Jno. M. Klein	Labor and material.	40. 00
18	Henry Bolton	Rent of rooms July 1 to Sept. 30.	52. 84
18	Frederick Davis	Coal.	56. 00
18	E. T. Webber	Rent of rooms July 1 to Sept. 30.	90. 00
18	F. J. Masterson	Repairing furniture.	10. 00
18	Grant Rivenberg	Ice, July 1 to Sept. 30.	6. 90
19	W. C. McGuinness	Traveling expenses.	8. 40
19	L. M. Howard	Transmitting messages, July 1 to Sept. 30.	22. 50
19	Savannah Board of Trade	Rent of rooms July 1 to Sept. 30.	78. 25
19	Denver and Rio Grande R. R. Co.	Transporting freight.	3. 54
19	Colorado Midland Rwy. Co.	do	1. 45
19	Vandalia Line	do	1. 17

*Expenditures Department of Agriculture for fiscal year ending June 30, 1893—Cont'd.*

WEATHER BUREAU—GENERAL EXPENSES—Continued.

Date.	Name.	Nature of payment.	Total.
1892.			
Oct. 19	Julien I. Freiz	Barometer boxes	\$510.00
19	Pay roll, Erie, Pa., substation	Salaries July 1 to Sept. 30	60.00
19	F. R. Matthews & Co	Repairing caligraph	9.10
19	A. E. Hackett	Meals and lodging, Sept. 20 to Oct. 7	12.20
19	F. C. Hyde	Services, July 1 to Sept. 30	23.00
19	J. C. Morrell	Services as displayman September	20.00
19	W. B. Moses & Sons	Rugs, etc	104.50
19	John C. Parker	Stationery	225.33
19	do	Envelopes	79.00
19	James B. Lambie	Tacks	1.60
22	Minneapolis, St. Paul and Sault Ste. Marie Rwy. Co.	Transmitting messages, August	68.43
22	do	Transmitting messages, July	72.37
22	P. J. Cahill	Repairing boats, etc	5.00
22	Montgomery Real Estate Association.	Rent of rooms, Aug. 1 to Sept. 30	37.50
22	Campbell & Gregg	Towel supply, July 1 to Sept. 30	3.00
22	John L. Mitchell, executor	Rent of rooms, July 1 to Sept. 30	163.75
22	Annie A. McGovern	do	85.92
22	Bohlen-Huse Machine and Lake Ice Co.	Ice, July 1 to Sept. 30	9.20
22	W. S. Nichols & Co	Provisions for Pikes Peak, October	327.70
22	Anna L. Bean	Services, July 1 to Sept. 30	9.20
22	Pay roll, Milwaukee, Wis., substation.	Salaries, July 1 to Sept. 30	240.00
22	Pay roll, Chicago, Ill	do	240.00
22	Pay roll, Atlanta, Ga	do	152.40
22	M. Steiger	Ice, July 1 to Sept. 30	16.00
22	Kate E. Reynolds	Services as cleaner, July 1 to Sept. 30	15.00
22	Winkley, Dresser & Co.	Ink, etc	6.50
22	H. E. Bowen	Repairing printing press	30.00
22	Amasa S. Dyer	Services as displayman, July 1 to Sept. 30	30.00
22	Wisconsin Telephone Co	Telephone exchange, July 1 to Sept. 30	12.00
22	Thomas H. Wagner	Repairing river gauge	8.00
22	Ehrinhaus Bros. & Co	Feed	27.35
22	George S. Waite	Rent of rooms, July 1 to Sept. 30	103.86
22	Hornby & Carman	Services in making repairs	13.00
22	Bryant, McEachin & Lace	Rent of rooms, July 1 to Sept. 30	90.41
22	Daniel James	Services as cleaner, July 1 to Sept. 30	3.00
22	S. F. Taylor	Rent of rooms, July 1 to Sept. 30	66.00
22	D. B. Bybee	Services as cleaner, Aug. 1 to Sept. 30	8.00
22	W. H. B. Cron	Services furnishing water, July 1 to Sept. 30	1.50
22	Isabella Reinhart	Services as cleaner, September 1 to 30	3.00
22	First National Bank	Rent of rooms, July 1 to Sept. 30	85.75
22	Masonic Temple Association	do	75.00
22	Missouri and Kansas Telephone Co.	Rent of telephone, July 1 to Sept. 30	21.00
22	W. H. Saxton, Jr.	Repairing clock	2.50
22	Bell Telephone Co. of Missouri	Telephone exchange, July 1 to Sept. 30	16.25
22	V. C. Meyshofer	Rent of rooms, July 1 to Sept. 5	43.33
22	S. W. Glenn	Board and lodging, Sept. 1 to 30	45.00
22	Great Southern Telephone and Telegraph Co.	Transmitting messages, July 1 to Sept. 30	25.00
25	Isaac Friedenwald	Stationery, absorbent paper	1,102.75
25	George H. Fuller Desk Co.	Office chair	4.00
25	John Steinmetz	Cleaning river gauge	2.30
25	Margaret Cumming	Typewriter	75.00
25	Wm. Frizzell & Sons	Coal, etc	77.00
25	The Manhattan Supply Co.	Clocks	138.78
25	Pay roll, Lacrosse, Wis., substation.	Salaries, July 1 to Sept. 30	18.40
25	T. F. Townsend	Traveling expenses	100.56
25	J. M. Bates	Painting river gauge	3.00
25	Pay roll, St. Louis, Mo., substation.	Salaries, July 1 to Sept. 30	235.55
25	Astoria Gaslight Co	Gas, July 1 to Sept. 30	1.95
25	Thomas Crawford	Traveling expenses	3.25
25	S. O. Sistrunk	Services as river observer, Aug. 1 to Sept. 30	14.75
25	H. H. Buhne	Rent of room, July 1 to Sept. 30	72.41
25	Central District and Printing Telegraph Co.	Telephone exchange, July 1 to Sept. 30	12.50
25	George Staugl	Repairing lounge	5.00
25	F. A. Schneider	Harness supplies	3.45
25	C. Witmer & Co	Corn starch	3.20
26	The Ohio River Telegraph Co.	Transmitting messages, July 1 to Sept. 30	16.00
26	John J. Veeder	Hire of steam launch repairing telegraph line	16.00
26	Burton Bros.	Ice, Aug. 23 to Sept. 30	1.70
26	Hillie Hoskin	Services as cleaner, Aug. 1 to Sept. 30	6.50

Expenditures Department of Agriculture for fiscal year ending June 30, 1893—Cont'd.

## WEATHER BUREAU—GENERAL EXPENSES—Continued.

Date.	Name.	Nature of payment.	Total.
1892.			
Oct. 26	A. E. Hackett	Drayage, September	\$1.40
26	Montgomery Light Co.	Gas, Aug. 15 to Sept. 30	1.80
26	Cumberland Telephone and Telegraph Co.	Transmitting messages, July 1 to Sept. 30	7.10
26	Shiff & Dawson	Repairing river gauge	10.00
26	Wisconsin Telephone Co.	Rent of telephone, July 1 to Sept. 30	15.00
26	Thomaston and Barnesville Telegraph Line.	Transmitting messages, September	2.60
26	Arkansas Telephone Co.	Rent of telephone, July 1 to Sept. 30	9.75
26	R. Q. Grant	Drayage, July and August	2.75
26	James Anderson	Repairing telegraph line	3.00
26	Thomas Roti	Repairing United States telegraph line	4.50
26	C. L. Bozzell	Drayage, September	3.00
26	Pay roll, Little Rock, Ark.	Substation salaries, July 1 to Sept. 30	199.20
26	Fred Harris	Repairing United States telegraph line	5.00
26	J. E. Scully	do	2.50
26	C. C. Ames	do	22.50
26	Henry Anderson	Services assistant repairman, Sept. 3 to 10	20.00
26	Port Angeles Traffic and Transfer Co.	Repairing United States telegraph line	9.25
26	Central Ice Co.	Ice, Sept. 1 to Oct. 10	8.00
26	G. C. Wilkins	Repairing clock	3.00
26	W. C. Tickert	Repairing wire cot	2.00
26	E. H. Emery	Cartage	1.75
26	Joseph Lawrence	Services, July 1 to Sept. 30	21.00
26	Lorenzo Littlefield	Rent of rooms, July 1 to Sept. 30	42.50
26	E. R. Demain	Drayage	1.80
26	Arctic Ice Co.	Ice, September	4.50
26	Edward Vail & Co.	Repairing clock	1.50
26	Lucius M. Sheldon, by H. B. Stevens, attorney in fact.	Rent of rooms, July 1 to Sept. 30	84.42
26	Amanda B. Alter	Cleaning river gauge	1.50
26	F. F. Voight	Repairing chairs	45.50
26	Lake Shore and Michigan Southern Rwy. Co.	Transportation	46.84
27	Royce & Marean	Pliers, etc.	194.00
27	Homer J. Hart	Repairing United States telegraph line	25.00
27	New York Central and Hudson River R. R. Co.	Transportation	14.52
27	Philadelphia, Reading and Pottsville Telegraph Co.	Transmitting messages, September	8.99
27	New England Telephone and Telegraph Co.	do	2.70
27	New York, New Haven and Hartford R. R. Co.	Transportation	13.25
27	Hezekiah Bowman	Packing and delivering book	1.50
27	Clarksburg and Weston Telegraph Co.	Transmitting messages, September	16.40
27	J. R. Clinton	Repairing U. S. telegraph line	3.50
27	Julien P. Friez	Clock construction	32.50
27	Boston and Maine R. R.	Transportation	1.30
27	Great Western Type Foundry	News cases	3.00
27	Francis D. Clark	Recaning chairs	2.30
27	C. S. Woodman	Drayage	1.25
27	M. F. Hayes	do	2.00
27	Rigby & Wilson	Battery stand	5.00
27	F. C. Hall	Hotel expenses, Oct. 7 to 10	6.50
27	Pay roll, New Orleans, La.	Substation salaries, July 1 to Sept. 30	530.70
27	Pay roll, Galveston, Tex.	do	283.20
31	J. K. Robinson <i>et al.</i>	Printing for October	2,105.46
31	James K. Jones <i>et al.</i>	Salaries for October	539.00
31	S. W. Glenn	Board and lodging, October	45.00
31	S. S. Bassler	do	45.00
31	John P. Church	Typewriter	70.00
31	Milton Whitney	Salary for October	252.70
3	Sheffield Manufacturing Co.	Envelopes	1,719.35
3	Thomas Robinson	Traveling expenses in October	20.47
3	Pay roll, Vicksburg, Miss.	Substation salaries, July 1 to Sept. 30	141.00
3	Wyoming Midland Telegraph Co.	Transmitting messages, September	12.40
3	Wm. H. H. Smith	Livery hire, September	4.50
3	Frank L. Loftus	Linoleum	40.00
3	R. A. Habersham	Services, Oct. 7	10.00
3	C. Endress & Sons	Telephoning, July to September, inclusive	5.00
3	J. E. A. Harris	Constructing river gauge	55.00
3	W. M. Wilson	Drayage	3.00
3	B. S. Payne	Traveling expenses, September	19.00
3	Chicago, Burlington and Northern R. R. Co.	Transporting messages, September	11.26

Expenditures Department of Agriculture for fiscal year ending June 30, 1893—Cont'd.

## WEATHER BUREAU—GENERAL EXPENSES—Continued.

Date.	Name.	Nature of payment.	Total.
1892.			
Nov. 3	Lewis R. Dey	Map-shading outfit	\$240.00
3	W. H. Barnard & Co	Labor and material	3.25
3	McKinley Bros.	Labor and material erecting river gauge	60.00
3	Jno. M. Klein	Office supplies, blankets, etc	130.95
3	G. G. Wright	Coal scuttle	1.00
3	H. H. Stafford Son & Co	Ink, mucilage, etc	5.50
3	M. W. Etheridge	Transporting repairman	7.00
3	J. E. Lanonette	Drayage	1.15
3	Case, King and Wodzitzki	Brooms	2.20
3	S. M. Bradford	Hauling	.50
3	P. T. Jenkins	Meals and lodging, Oct. 11 to 15	10.50
3	Natchitoches and People's Telegraph Line	Transmitting reports, July 1 to Sept. 30	45.00
3	Thomas Roti	Wood	100.00
3	Robert McElroy	Rent of rooms for October	90.00
3	Pacific Club	Rent of rooms, July 1 to Sept. 30	72.50
3	The Northwestern General Electric Co.	Wire, etc	23.13
3	Telephone and Telegraph Construction Co.	Exchange service, July 1 to Sept. 30	125.00
3	W. J. McNaughton	Labor and material erecting river gauge	150.00
3	Cumberland Telephone and Telegraph Co.	Transmitting messages, July 1 to Sept. 30	74.80
3	J. B. Marbury	Traveling expenses	8.00
3	Julius Herbst	Shelving	13.00
3	Robert McElroy	Gas for September	9.60
3	Geo. H. Fuller Desk Co.	Repairing desk	3.00
3	James Joice	Services as cleaner for October	3.00
3	George C. Feikert	Services and material, painting	15.00
3	Charles A. Kimball	Services as displayman, July 1 to Sept. 30	15.00
3	W. S. Gosnell	Services as cleaner for October	5.00
3	Sadie Robinson	do	12.50
3	Joseph Gussenhoven	Stove, board, etc	5.50
3	D. P. McCallum	Traveling expenses	2.10
3	Henry Goucher	Express on baggage	.50
3	John McKenna	Services as cleaner for September	10.00
3	Frank Ridgway	Meals, Oct. 21 and 22	3.50
3	P. T. Jenkins	Traveling expenses	3.50
3	A. F. Vorce	Services, July 1 to Sept. 30	30.00
3	Maurice Joyce	Electrotypes	110.50
3	C. F. Marvin	Traveling expenses	125.90
3	M. G. Copeland & Co.	Flag	12.50
4	R. L. Packard	Salary, Oct. 19 to 31	42.39
5	John C. Parker	Manila envelopes	1,875.75
5	C. B. Fenton & Co.	Recasting rollers	47.25
5	Pay roll, Montgomery, Ala	Substation salaries, July 1 to Sept. 30	343.00
5	Pay roll, Nashville, Tenn	do	22.95
5	Pay roll, Fort Smith, Ark	do	27.60
5	Pay roll, Mobile, Ala	do	191.40
5	Newport News and Mississippi Valley Co.	Transmitting messages, August	5.40
5	Louisville and Ackerman Telephone Co.	Transmitting messages, July 1 to Sept. 14	6.25
5	James W. Queen & Co	Field glass	27.00
5	New York and New England R. R. Co.	Transportation	12.25
5	Rising Sun Telegraph Line	Transmitting messages; July 1 to Sept. 30	7.70
5	S. J. Lutz & Co	Coal oil	4.50
5	J. T. Dodge	Stove and pipe	36.00
5	A. Pritchard	Services, Oct. 10 and 11	5.00
5	Michigan Bell Telephone Co.	Transmitting messages, July 1 to Sept. 30	317.58
5	George Aitree	Oars	1.40
5	W. M. Case	Services, October	40.00
5	Little Northern Telegraph Co	Transmitting messages, July 1 to Sept. 30	6.25
5	Thomas Roti	Repairing United States Telegraph line	14.00
5	E. A. Horton	Stove	17.50
5	L. B. Midgett, Jr	Ferriage, repairman, Oct. 1	3.25
5	Frank Perry	Telephoning, July 1 to Sept. 30	1.10
5	do	do	23.40
5	W. C. Henderson	Coal	20.06
5	Chas. H. Hart & Co	Painting river gauge	10.00
5	James J. Semrig	Graduating, etc., river gauge	150.00
5	Courier-Journal Co	Rent of rooms, July 1 to Sept. 30	69.00
5	Charles Shea	Services, July 1 to Sept. 30	30.00
5	New England Telephone and Telegraph Co.	Telephone service for September	4.17
5	do	Rent telephone, July 1 to Sept. 30	12.50
5	First National Bank, Portland, Me.	Rent of rooms, July 1 to Sept. 30	126.00

Expenditures Department of Agriculture for fiscal year ending June 30, 1893—Cont'd.

## WEATHER BUREAU—GENERAL EXPENSES—Continued.

Date.	Name.	Nature of payment.	Total.
1892.			
Nov. 5	B. E. Higgs .....	Labor and material constructing river gauge.	\$20.00
5	W. B. McMurray .....	Setting river gauge .....	5.00
5	Williams & Hunting Co .....	Constructing river gauge .....	20.00
5	F. St. John .....	Dressing stone pier for river gauge .....	15.00
5	Chas. Gregor .....	Services as cleaner for October .....	5.00
5	H. J. Penrod .....	Meals and lodging, Oct. 19 to 27 .....	9.35
5	J. E. Lanonetee .....	Hauling stores, October .....	1.50
5	MacLeod & Young .....	Services as engineer .....	50.00
5	Chesapeake and Ohio Rwy. Co .....	Transportation .....	14.00
5	C. F. R. Wappenhause .....	Board for October .....	45.00
5	H. H. Clayton .....	Board and lodging, October .....	45.00
5	Pittsburg Telegraph Line .....	Transmitting messages, July 1 to Sept. 30 .....	15.60
5	W. P. Wilson .....	Salary, Sept. 1 to Oct. 31 .....	100.00
7	Louisville and Nashville R. R. Co.	Transportation .....	17.10
7	Illwaco Ry. and Navigation Co.	Transporting freight .....	.48
7	Burlington and Missouri River R. R. in Nebraska.	Transportation .....	13.90
7	Baltimore and Ohio R. R. Co.	Transporting freight .....	.76
7	Hannibal and St. Joseph R. R. Co.	do .....	3.79
7	do .....	do .....	.22
7	L. N. Heil .....	Rent of rooms, July 1 to Sept. 30 .....	98.00
7	Brandon Printing Co. ....	Typewriter .....	88.00
7	M. U. Esderts .....	Desk .....	25.00
7	Galveston Cotton Exchange .....	Rent of office, July 1 to Sept. 30 .....	78.25
7	Charleston City Rwy. Co. ....	Street-car tickets .....	16.00
7	Indian River Steamboat Co. ....	Transporting freight .....	1.20
7	Wilmington, Columbia and Augusta R. R. Co.	do .....	1.56
7	St. Louis and San Francisco Rwy. Co.	do .....	.71
7	James Cameron .....	Hire of team .....	2.00
8	Munfordville Short Line Telegraph.	Transmitting messages, July 1 to Sept. 30 .....	3.80
8	Ohio and Mississippi Rwy. Co. ....	Transporting freight .....	8.63
8	Vanderbilt University .....	Rent of office, July 1 to Sept. 30 .....	95.07
8	Switzer, Newitter & Co .....	Oilcloth .....	2.50
8	H. C. Schultz .....	Instrument stand .....	9.00
8	Smith & Swainson .....	Rent of room for October .....	10.00
3	Broadwater & Pepin .....	Coal .....	59.00
8	Jno. F. Jackson .....	do .....	21.00
8	Fred D. Alling .....	Office supplies, matches, etc .....	5.00
8	R. M. Mansford .....	Ink, mucilage, etc .....	9.30
8	C. G. Abercrombie .....	Coal .....	5.75
8	Joseph Ridgway, jr .....	Recording observations, July 15 to Oct. 15 .....	145.50
8	J. C. Entwistle .....	Engraving rain chart .....	5.00
8	J. H. Mills & Co .....	Composing sticks, etc .....	189.12
8	I. M. Cline .....	Traveling expenses .....	9.95
9	Old Colony R. R. Co. ....	Transportation .....	10.05
9	State Printing and Publishing Co. ....	Book paper .....	4.50
9	Chas. A. Smith .....	Dating stamp .....	1.00
9	Jordan & Hedderick .....	Coal .....	96.00
9	Broadwater & Pepin .....	Rent of rooms for October .....	30.03
9	Easton & Rupp .....	Envelopes, etc .....	115.57
9	Andrew Renz .....	Sharpening paper knife .....	1.50
10	Isaac Friedenwal .....	Letter heads .....	534.45
10	Leon J. Glaenzer & Co .....	Hygrometer sheets .....	5.60
10	Alexander H. Revell & Co. ....	Linoleum .....	73.50
10	W. G. Hamilton .....	Repairing Weather Bureau building, November.	1,585.00
10	F. L. Jackson, agent .....	Rent of rooms for October .....	24.75
10	Newman & Son .....	Cyclostyle pens .....	424.00
10	J. C. Addison .....	Manila board .....	16.50
10	F. A. Schneider .....	Hardware .....	27.57
10	Thomas Somerville & Sons .....	Castings, etc .....	.85
10	I. M. Cline .....	Drayage .....	1.40
11	Lenoir and Blowing Rock Telegraph Co. ....	Transmitting messages, July 1 to Sept. 30 .....	15.40
11	Chas. Cooper & Co .....	Ammonia .....	5.00
11	Chas. Euen, Johnson & Co .....	Printing ink .....	9.38
11	Keuffel & Esser Co. ....	Measuring sticks .....	52.50
11	Mineralized Rubber Co. ....	Rubber blankets .....	58.80
11	Chas. Carter & Co. ....	Hardware .....	4.10
11	W. T. Galliher & Bro. ....	Lumber .....	121.15
11	Easton & Rupp .....	Cardboard .....	55.00
11	M. G. Copeland & Co. ....	Pennants .....	32.90

*Expenditures Department of Agriculture for fiscal year ending June 30, 1893—Cont'd.*

WEATHER BUREAU—GENERAL EXPENSES—Continued.

Date.	Name.	Nature of payment.	Total.
1892.			
Nov. 11	James B. Lambie	Wire	\$0.90
11	Wm. Ballantyne & Sons	Hazen's tables	10.00
11	Andrew B. Graham	Engraving stone	10.00
11	Royce & Marean	Battery jars	36.00
12	Michigan Central Railroad Co.	Transportation	20.90
12	H. F. Gullison & Co.	Carpet	27.00
12	J. Handy	Services, Sept. 26	10.00
12	Richard Titus	Services as cleaner for October	4.00
12	W. H. Gaskins	Boat hire	3.00
12	Jennie Pritchett	Services as cleaner for October	3.00
12	Miles Jackson	do	5.00
12	Emma Ling	do	5.00
14	Sharbers & White	Office supplies, stoves, etc.	34.35
14	Wm. H. H. Smith	Repairing United States telegraph line	28.00
14	Nelson P. Ewer	Services as laborer, October	4.00
14	Owen Terry	do	4.00
14	Samuel B. Smith	do	9.00
14	J. N. Applebaugh	Services as displayman, October	36.00
14	Wilson & Seay	Services constructing river gauge	35.00
14	Welsh & Bro.	Repairing clock	1.50
14	Julien P. Friez	Repairing anemometers	525.00
14	A. W. Stevens	Hauling supplies, October	1.75
14	F. H. Clarke	Hauling supplies, August and October	1.85
14	James R. Hobbs	Hire of horse and cart	1.50
14	James P. Slaughter	Hauling supplies	1.10
14	M. B. Torbett & Co.	Caligraph stand	5.00
14	Park Morrill	Traveling expenses	30.33
14	E. J. Gifford	Services for October	7.75
14	Ole Walen	Services, Nov. 4	5.00
14	Los Angeles Furniture Co.	Stand for typewriter	2.50
14	E. H. Boos & Co.	Office chairs	11.00
14	Thos. Robinson	Services for October	25.00
14	G. W. Moss	Excursion ticket to Mexico and return	188.00
16	H. Brown	Drayage	.75
16	Combination Toilet Stand Co.	Toilet service for October	1.50
16	D. T. Flannery	Drayage	3.50
16	Baltimore and Ohio R. R. Co.	Transportation	32.25
16	John H. Flemm	Repairs to river gauge	7.00
16	McKinley Bros.	Labor and material	20.00
16	T. F. Townsend	Traveling expenses, October	112.88
16	E. M. Walters	Hauling	7.50
16	Memphis Light and Power Co.	Rent of electric lights, October	3.38
16	I. M. Cline	Reefing halyards	3.00
18	Smedley Bros & Co.	Drayage	3.88
18	Chicago and Northwestern Rwy. Co.	Transportation	6.50
18	Wyoming Midland Telegraph Co.	Transmitting messages, October	13.10
18	S. S. Bassler	Traveling expenses	2.00
18	E. H. Emery	do	3.00
19	M. H. Garland	Level for river gauge	3.00
19	Jno. M. Klein	Moving furniture, etc.	290.00
19	Isabella Reinhart	Services as cleaner, October	3.00
19	Thomas Roti	Repairing United States telegraph	8.00
19	Frank Willard	Telegraph poles	1.80
19	John F. Williams	Painting instrument shelter, etc.	12.00
19	John S. Beach	Repairing stove, etc	2.10
19	R. E. Kerkam	Traveling expenses	6.50
19	Philadelphia, Reading and Pottsville Telegraph Co.	Transmitting messages, October	8.43
19	Merchants' Steamship Co.	Freight charges	2.27
19	Hastings Steamboat Co.	do	5.50
19	John C. Davis	do	2.73
19	Ocean Towboat Line	Transporting signals, October	30.00
19	William E. Hook, jr	Services as cleaner	8.00
19	Geo. W. Keyes	Services for October	3.10
19	L. Roy Mansfield	Repairs to typewriter	60.00
21	Minneapolis, St. Paul and Sault Ste. Marie Rwy Co.	Transmitting messages, September	64.01
21	Pennsylvania R. R. Co.	Transportation	96.24
21	East Tennessee, Virginia and Georgia Rwy.	do	3.00
21	Philadelphia and Reading R. Co.	do	5.68
21	Pay roll, Detroit, Mich., substation.	Salaries, July 1 to Sept. 30	90.00
21	L. A. Nellis	Repairs of river gauge	8.00
21	Roehm & Son	Repairs on clock	2.00
21	J. C. Morrell	Services, October	20.00

Expenditures Department of Agriculture for fiscal year ending June 30, 1893—Cont'd.

## WEATHER BUREAU—GENERAL EXPENSES—Continued.

Date.	Name.	Nature of payment.	Total.
1892.			
Nov. 21	H. T. McGuire.	Cleaning furniture, etc.	\$10.00
22	Smith & Conklin	Desks, etc.	156.00
22	John Henry	Coal.	4.25
22	John L. Wise	Brushes.	22.00
22	Alex. Pavarini & Son.	Packing boxes, etc.	84.50
22	Israel W. Stone	Traveling expenses.	26.85
22	John M. Williams	Hauling.	13.30
22	do	do.	1.84
22	H. J. Penrod	Transporting supplies.	4.85
22	Jas. A. Barry	Drayage, etc.	3.80
22	Chesapeake and Potomac Telephone Co.	Telephone service, July 1 to Sept. 30	25.00
22	J. K. & B. Sears & Co.	Labor and material.	6.18
22	Robert McElroy	Gas for October.	15.40
22	J. C. Entwistle	Engraving, etc.	23.00
25	John M. Klein	Drayage.	19.00
25	A. W. Keffer	Labor and material.	15.00
25	W. L. Moore	Drayage, etc.	3.40
25	F. H. Brandenburg	Drayage.	1.00
25	G. Anderson	Painting and repairing.	15.00
25	Wm. Upton	Repairing lanterns.	1.00
25	Southern Bell Telephone and Telegraph Co.	Telephone service, July 1 to Sept. 30.	15.00
26	Tidewater Telephone Co.	Transmitting messages, July 1 to Sept. 30.	9.20
26	New England Telephone and Telegraph Co.	Transmitting messages, October.	2.70
26	Louisville and Nashville R. R. Co.	Transportation.	41.07
26	Enterprise Telegraph Co.	Transmitting messages, Sept. 1 to Oct. 31.	4.60
26	George E. Hunt	Traveling expenses.	14.25
26	Colorado Springs Furniture Co.	Labor and material.	19.50
26	P. Connor	Street-car tickets, October.	2.50
26	Swan & Stein	Lettering doors.	6.00
26	B. Nowell.	Services as cleaner, October.	5.00
26	Wm. Bell	Expenses, November.	3.00
26	P. J. Bolton	Repairing stove, etc.	11.45
26	Isa D. Smith	Services, October.	6.20
26	Southern Bell Telephone and Telegraph Co.	Telephone service, July 1 to Sept. 30.	16.00
26	John A. Ubsdell	Labor and material.	47.47
26	Pittsburgh, Cincinnati, Chicago and St. Louis Rwy. Co.	Transportation.	16.00
26	E. B. Dunn	Traveling expenses.	2.00
26	Forsberg & Murray	Anemometer supports.	18.00
26	John C. Parker	Stationery.	85.90
30	James K. Jones, Jr., <i>et al.</i>	Salaries for November.	600.70
30	J. K. Robinson	Printing for November.	2,119.60
30	F. A. Schneider	Brass screws, etc.	100.33
1	Milton Whitney	Salary for November.	244.60
1	J. L. Utterback	Drayage.	1.50
1	F. S. Hyde	do.	2.55
1	B. S. Pague	Repairing clock, etc.	10.30
1	John P. Glynn	Hauling.	1.00
1	H. W. Taylor, agent Mills Building.	Office rent, San Francisco, November.	100.00
1	D. H. Holmes	Ink.	3.85
1	Combination Toilet Stand Co., Limited.	Washing towels, November.	1.50
1	Geo. S. Clark & Co.	Coal.	2.25
1	Charles W. Weir	Hauling.	1.00
1	Geo. E. Hunt	Repairing clock, etc.	5.40
1	Geo. B. Ackerman	Drayage.	1.00
1	A. M. and J. Solari	Matches and oil.	1.65
1	Steam Gauge and Lantern Co.	Lamps.	215.00
1	W. M. Case	Salary for November.	40.00
1	L. M. Pindell	Gas, etc.	2.90
1	W. and J. Sloan & Co.	Relaying carpet, etc.	75.19
1	Pennsylvania R. R. Co.	Transportation.	51.42
1	E. A. Hanner	Hauling, etc.	2.77
1	Emmons Bros. Hardware Co.	Oil.	1.44
1	Davidson Ventilating Fan Co.	Benzine, etc.	8.34
1	E. H. Thompson	Paints, oil, etc.	19.20
1	U. G. Myers	Drayage.	6.25
1	Reed & Tomlinson.	Desk and stool.	24.00
1	T. B. Jennings	Anemometer, etc.	4.50
1	Jacob Kamm	Office rent, Portland, Oregon, July 1 to Oct. 2.	1.61
1	R. O. Williams	Repairing telegraph line.	3.00

Expenditures Department of Agriculture for fiscal year ending June 30, 1893—Cont'd.

## WEATHER BUREAU—GENERAL EXPENSES—Continued.

Date.	Name.	Nature of payment.	Total.
1892.			
Dec. 1	D. C. Hibbard	Labor and material	\$200.00
1	A. D. Brown	Cylinder for typewriter	1.25
1	The Paul Wilson Dry Goods Co.	Rug	3.00
1	The Morton Scott-Robertson Co.	Chairs and carpet	67.25
1	People's Dispatch and Transfer Co.	Freight and transportation	.90
1	Newman & Son	Stencil paper, etc	
1	J. H. Mills & Co.	Printers' supplies	108.17
3	Northern Pacific R. R. Co	Transportation	40.00
3	New York and New England R. R. Co.	do	3.00
3	John Mercer	Repairs to stove, etc	15.00
3	F. F. Voight	Repairing wind vane	4.00
3	C. F. Gregor	Services as cleaner, November	5.00
3	Rawlins, Nichols & Co	Coal	48.00
3	Pepperell Bros	Mucilage and ink	1.95
3	Edward Drinkwater	Hauling, etc	36.25
3	Library Bureau	Card catalogue outfit	3.00
3	A. M. Clark	Glass and glazing	3.85
3	Steamer Michigan	Freight charges	3.18
3	C. F. R. Wappenhaus	Expenses, November	45.00
3	H. H. Clayton	do	45.00
3	Western Railway of Alabama	Transportation	3.00
3	G. N. Lysight	Traveling expenses	9.75
3	Smith Bloomer	Extending river gauge	10.00
3	John Hollowell	Cleaning river gauge	1.00
3	T. N. Sandlin	Repairing cart	3.00
3	John M. Klein	Labor and material	4.00
3	Matt Wilson	Removal of office	40.00
3	W. S. Gosnell	Services as cleaner, November	5.00
3	Scherpe & Koden Architectural Iron Co	Repairing wind vane, etc	50.00
3	Geo. Hass Hagen	Repairs to milleograph	.75
3	W. G. Hamilton	Labor and material	30.00
3	Stevenson & Co	Rug	66.00
3	Thomas Roti	Repairing telegraph line	91.00
3	S. W. Glenn	Traveling expenses	10.75
3	A. T. Grigg	Chairs, desk, etc	40.00
3	R. L. Napper	Repairing barometer case	1.50
3	F. W. Denison	Services, Oct. 1 to Nov. 30	20.00
3	J. G. Upthegrove	do	20.00
3	Chas. J. Cary & Co.	Photo-engraving	105.00
6	H. H. Hodgson	Typewriter	90.00
6	S. M. Blandford	Traveling expenses	12.30
6	Isaac Friedenwald	Maps	900.00
6	Ilwaco Railway and Navigation Co.	Freight charges	.53
6	Julien P. Friez	Register	85.00
6	R. E. Kerkam	Sleeping-car fare	2.50
6	W. W. Neifert	Repairing clock, etc	1.45
6	J. L. Mooby	Painting river gauge, etc	20.00
6	Charles C. Ames	Services, Oct. 10 to 20	13.75
6	Chesapeake and Ohio Rwy. Co.	Transportation	5.20
6	Cleveland, Cincinnati, Chicago and St. Louis Rwy. Co.	do	9.55
6	S. P. Langley, secretary	Transportation of publications	105.46
6	Edison Mutual Telephone Co.	Transmitting messages, September	8.40
6	Denver and Rio Grande R. R. Co.	Freight charges	4.66
6	Chicago and West Michigan Rwy. Co.	do	2.23
6	Avoyelles Telephone Co.	Transmitting messages	.80
6	U. G. Purssel	Hauling	1.75
6	Smedley Bros. & Co.	do	3.50
6	Ohio and Mississippi Rwy.	Freight charges	3.70
6	St. Louis and New Orleans Anchor Line	do	1.05
6	Virginia and Truckee R. R. Co.	do	.87
6	Lake Superior Transit Co.	do	4.75
6	C. F. Jones	Repairing United States telegraph line	9.50
6	August Pfaffin	Repairing river gauge	20.00
6	Baltimore and Ohio R. R. Co.	Transportation	41.55
6	A. B. Crane	Drayage	1.00
6	D. Thoelecke	Cleaning clock, etc	1.50
6	Edward A. Evans	Drayage	1.00
6	G. G. Wickson & Co.	Repairs on calligraph	10.00
6	E. B. Dunn	Mucilage, benzine, etc	3.65

Expenditures Department of Agriculture for fiscal year ending June 30, 1893—Cont'd.

## WEATHER BUREAU—GENERAL EXPENSES—Continued.

Date.	Name.	Nature of payment.	Total.
1892.			
Dec. 6	W. B. Stockman	Traveling expenses	\$6.15
6	Nashville, Chattanooga and St. Louis Rwy. Co.	Transportation	34.80
6	Ohio and Mississippi Rwy. Co.	do	7.72
6	Richard Titus	Services as cleaner	4.00
9	The Consolidated Stationery Co.	Letter press	7.50
9	Pay roll, Charleston, S. C.	Substation salaries, October and November.	61.00
9	S. S. Bassler	Expenses, November	15.00
9	The Missouri Pacific Rwy. Co.	Transportation	41.55
9	United States Express Co.	Express charges	4.10
9	Maurice Joyce	Electrotypes plates	12.00
9	M. G. Copeland & Co.	Blizzard flags	857.00
9	E. L. Bugbee	Traveling expenses	3.25
10	Isaac Friedenwald	Wrappers	1,337.82
10	Stone & Nuckles	Labor and material	40.00
10	A. B. Massey	Services, July 1 to Sept. 30	16.85
10	J. M. Boyer	Labor and material	20.00
10	John M. Klein	Drayage, etc.	10.50
10	A. J. Davis	do	2.60
10	T. N. Sandlin	Building coal bin	15.00
10	T. B. Jennings	Lettering office doors, etc.	5.75
10	Fox & Landis	Argand chimneys, etc.	5.50
10	Little Rock Board of Trade	Office rent, Oct. 1 to Nov. 15, Little Rock, Ark.	48.85
10	E. S. Marvin	Mucilage	1.50
10	Smith & Swainson	Rent of desk and storeroom, Cleveland, Ohio.	10.00
10	A. Ellis	Caligraph stand, etc.	14.00
10	E. C. Bickford	Office table	10.00
10	H. C. Frankenfield	Hauling	1.75
10	J. P. Banks	Services, Oct. 1 to Nov. 26	14.25
10	John Henry	Coal	4.25
10	L. P. Johnson	Coal oil	1.40
10	J. H. Hensley	Repairing coal box, etc.	4.50
10	Samuel L. Brooks	Services, July 1 to Sept. 30	15.00
10	H. F. Gullison	Window shades	4.00
10	T. E. Broughton & Bro.	Painting	2.50
10	Clarksburg and Western Telegraph Co.	Transmitting messages, October	14.20
10	John C. Parker	Stencil paper, etc.	183.00
10	Adams Express Co.	Express charges	88.21
10	W. B. Moses & Sons	Carpet	50.00
10	Aberdeen Transportation Co.	Transportation	5.25
10	J. E. Cairnes	Expressage, etc.	2.25
10	J. C. Hayden	Express charges	6.15
10	Memphis Light and Power Co.	Rent of electric lights, November	5.81
10	David Cuthbertson	Traveling expenses	3.45
14	Minneapolis, St. Paul & Sault Ste. Marie R. R. Co.	Transmitting messages, October	38.23
14	Manitou and Pikes Peak R. R. Co.	Hauling, labor, etc.	168.52
14	J. W. Crider	Copying records	4.00
14	Forbes & Breedon	Repairing furniture, etc.	51.25
14	Port Angeles Traffic and Transfer Co.	Drayage, etc.	4.25
14	D. W. Morse	Nails and coal oil	6.00
14	Star Union Line	Freight charges	3.38
14	St. Louis and San Francisco R. R. Co.	do	.93
14	Detroit and Cleveland Steamship Navigation Co.	do	1.51
14	Norfolk and Southern R. R. Co.	do	2.73
14	Great Northern Rwy. Co.	Transportation	9.10
14	Pay roll, Memphis, Tenn.	Substation salaries, October and November.	145.60
14	Martin Bros. & Co	Matches and oil	1.05
14	Jacob Wormald	Constructing river gauge	168.27
14	Stephen Nadeau	Repairing vane	10.00
14	Jas. Ackerman	Repairing flagstaff, etc.	17.00
14	Broadwater & Pepin	Office rent, Havre, Mont., November	30.00
14	Emma Ling	Services as cleaner, November	5.00
14	Constitution Job Office	Printing bulletins	15.00
14	M. W. Etheridge	Ferrage	3.50
14	L. C. Freeman	Gas heating stove	20.00
14	T. F. Townsend	Expenses, Nov. 23 and 26	11.75
14	Miles Jackson	Services as cleaner, November	5.00
14	D. B. Bybee	Services as cleaner, Oct. 1 to Nov. 30	8.00
14	W. H. B. Crow	Furnishing water	1.00
14	J. C. Morrell	Services, November	20.00

*Expenditures Department of Agriculture for fiscal year ending June 30, 1893—Cont'd.*

WEATHER BUREAU—GENERAL EXPENSES—Continued.

Date.	Name.	Nature of payment.	Total.
1892.			
Dec. 14	B. Nowell.....	Services as cleaner, November.....	\$5.00
14	J. N. Applebaugh.....	Services for November.....	36.00
14	Isabella Reinhart.....	Services as cleaner, November.....	3.00
14	A. C. McMillin.....	Services, Sept. 15 to Nov. 30.....	12.67
14	J. H. Carlin.....	Ice, July 1 to Sept. 30.....	8.46
14	First National Bank.....	Office rent, Brownsville, Tex., July 1 to Sept. 30.....	63.25
14	do.....	Office rent, Brownsville, Tex., Oct. 1 to Nov. 30.....	42.16
14	James W. Queen & Co.....	Field glass.....	27.00
14	Julien P. Friez.....	Repairing anemometer.....	15.00
14	Isaac Friedenwald.....	Maps.....	93.00
14	S. F. Taylor.....	Office rent, Idaho Falls, Idaho, Oct. 1 to Nov. 30.....	44.00
14	F. L. Jackson, agent.....	Office rent, Yankton, S. Dak., November.....	24.75
14	Holmes & Co.....	Rubber tubing.....	1.01
14	W. S. Jenks.....	Copper cylinder.....	1.50
14	J. C. Addison.....	Manila card board.....	74.25
14	Thomas J. Luttrell.....	Millinette.....	1.13
14	John Schultzbach.....	Anemometer wrenches.....	20.00
16	Titus S. Townsend.....	Traveling expenses, October.....	10.25
16	Chas. M. Stoever.....	Map paper.....	665.02
16	Gulf, Colorado and Santa Fe Rwy. Co.....	Transportation.....	37.90
16	J. B. Marbury.....	Expenses, November.....	7.25
16	B. Chambers.....	Wind direction cross-arms.....	66.25
16	Flint and Pere Marquette R. R. Co.....	Transportation.....	4.50
16	James Howie.....	Resetting flagstaff.....	2.00
16	Cleveland, Cincinnati, Chicago and St. Louis Rwy. Co.....	Transportation.....	3.05
16	Ed. F. Winn.....	Labor and material.....	19.00
16	Charles A. Kimball.....	Services, Oct. 1 to Nov. 30.....	10.00
16	M. Wick.....	Laying carpet.....	3.50
16	Jennie Pritchett.....	Services as cleaner, November.....	3.00
16	Geo. H. Fuller Desk Co.....	Moving desk, etc.....	2.00
16	William E. Hook, jr.....	Traveling expenses.....	10.00
16	Thos. Roti.....	Services, Nov. 17, 21, 22.....	10.50
16	John J. Veeder.....	Hire of boat.....	4.00
16	Walter O. Luscombe.....	Hauling.....	1.00
16	Martin Hanson, jr.....	Crating, etc., Weather Bureau property.....	20.00
16	James Anderson.....	Repairing United States telegraph line.....	3.00
16	Carl & Abel.....	Seismoscope.....	20.00
16	Peter Paul & Bro.....	Caligraph.....	85.00
16	C. B. Cottrell & Sons.....	Labor and material.....	62.15
16	George Meier & Co.....	Ink.....	10.00
16	Florida Central Peninsular R. Co.....	Freight charges.....	.25
19	Geo. Ryneal, jr.....	White lead, etc.....	2.14
16	Chicago, Burlington and Northern R. R. Co.....	Transmitting messages, October.....	11.78
16	Cincinnati, New Orleans and Texas Pacific Rwy. Co.....	Transportation.....	5.10
16	Steam Gauge and Lantern Co.....	Signal lamps, etc.....	265.00
16	Clement, Williams & Co.....	Flat-top desk, etc.....	44.00
16	Thos. Robinson.....	Services, November.....	25.00
16	Pay roll, Savannah, Ga., sub-station.....	Salaries, October and November.....	145.60
16	Willard G. Kenerson.....	Newspaper rack.....	4.50
16	Newman & Son.....	Repairing caligraph.....	35.00
16	Nordhoff & Knaabe.....	Repairing clock.....	3.00
17	Geo. H. Howell.....	Desk.....	30.00
17	Pay roll, Wilmington, N. C., substation.....	Salaries, October and November.....	85.40
17	The Edison Mutual Telegraph Co.....	Transmitting messages, July 1 to Aug. 31.....	1.39
17	P. H. Smyth.....	Drayage.....	1.60
17	Joseph Empey & Co.....	Repairing wind vane.....	2.00
17	William C. Johnson.....	Laying carpet, etc.....	3.75
17	Wm. C. Pelham.....	Marking, etc., river gauge.....	93.00
17	F. B. Myers.....	Hauling, etc.....	2.00
17	Joseph A. Smith.....	Table.....	3.50
17	A. P. Eagleston.....	Office chair.....	5.00
17	C. B. Fenton & Co.....	Recasting milliograph.....	32.00
17	Mark W. Harrington.....	Traveling expenses, November and December.....	76.07
17	John C. Parker.....	Carbon paper.....	80.00
19	H. F. Alciator.....	Traveling expenses.....	13.75
19	L. E. Stronach.....	do.....	11.25

Expenditures Department of Agriculture for fiscal year ending June 30, 1893—Cont'd.

## WEATHER BUREAU—GENERAL EXPENSES—Continued.

Date.	Name.	Nature of payment.	Total.
1892.			
Dec. 19	D. P. McCallum.	Drayage, etc.	\$2.00
19	Park Morrill	Traveling expenses.	9.76
19	J. M. Sherier	do	4.75
19	E. B. Dunn	Expenses, Nov. 9 to Dec. 15.	55.50
19	Pay roll, Oswego, N. J., sub-station.	Salaries, Oct. 1 to Dec 10	62.70
19	Reeves & Trenchard	Desk	35.00
19	P. T. Jenkins	Traveling expenses, November	32.15
19	E. A. Brown.	Traveling expenses, December	8.50
19	A. A. Prados	Painting	15.00
22	Pay roll, Little Rock, Ark., sub-stations.	Salaries, October and November	120.00
23	Rio Grande Western Rwy	Transportation	25.00
23	Hastings Steamboat Co	do	3.00
23	Cincinnati, New Orleans and Texas Pacific Rwy. Co	do	5.10
23	Wm. M. Dudley	Traveling expenses.	8.50
33	R. E. Kerkam	Cleaning office, etc.	11.00
23	W. H. Hammon	Express charges	6.55
23	J. N. Ryker.	Traveling expenses, etc.	11.80
23	J. W. Bauer	Express charges, etc.	1.25
23	A. M. Word	Repairing clock	2.50
23	Port Angeles Traffic and Transfer Co.	Repairing United States telegraph line	14.50
23	Thomas Butler	do	16.25
23	Geo. McFarland	do	10.00
23	D. C. Hibbard	do	19.50
23	G. T. W. Wells	Services, Nov. 20 to 23	6.00
23	C. C. Ames	Services, Nov. 4 to 23	17.50
23	Fred P. Low	Services, Oct. 1 to Dec. 31	11.25
23	O. H. Willis.	do	12.00
23	J. C. Carr.	Labor and material.	6.10
23	Lowman & Hanford	Repairing caligraph	10.00
23	Pay roll, Vicksburg, Miss., sub-station.	Salaries, October and November	53.40
23	Chas T. Park	Labor and material.	12.00
23	Pay roll, Atlanta, Ga., substation.	Salaries, October and November	103.80
23	Arthur Ellis.	Labor and material.	13.00
23	Rafael Innguera	Services, July 1 to Oct. 15	141.00
23	John M. Williams	Hauling	6.88
31	J. K. Robinson <i>et al.</i>	Printing roll for December	2,074.76
31	James K. Jones <i>et al.</i>	Salaries for December	548.78
31	I. M. Cline	Expenses, Nov. 2 to 30	43.50
31	G. M. Lee	Services, Dec. 1	1.13
	Total second quarter.		61,285.22
1893.			
Jan. 2	Milton Whitney	Services for December	252.70
2	William Powell Wilson	Services, Nov. 1 to Dec. 31	100.00
2	Old Colony R. R. Co	Freight charges	1.61
2	Star Union Line	do	4.20
2	do	do	4.30
2	do	do	.75
2	Baltimore and Ohio R. R. Co.	do	3.95
2	Toledo, Peoria and Western Rwy. Co.	do	1.36
2	Atchinson, Topeka and Santa Fe R. R. Co.	do	9.85
2	Natchitoches and People's Telegraph Line.	Transmitting reports, Oct. 1 to Nov. 30	30.00
2	S. S. Bassler	Drayage, etc.	1.85
2	Chas. A. Smith	do	1.95
2	W. L. Moore	do	1.10
2	R. C. Wilder's Sons	Labor and material.	40.00
2	H. A. McNally	Drayage	1.00
2	Chicago, Burlington and Quincy R. R. Co.	Freight charges	14.12
2	do	do	9.03
2	Detroit and Cleveland Steam Navigation Co.	do	3.18
2	Boston and Maine R. R. Co.	do	1.16
3	Portland and Rochester R. R. Co	do	1.68
2	Empire Line	do	2.87
2	Northeastern R. R. Co	do	4.55
2	Jacksonville, Tampa and Key West Rwy. Co.	do	19.87
2	South Florida R. R. Co.	do	7.51
2	New York Central and Hudson River R. R. Co.	do	3.57

Expenditures Department of Agriculture for fiscal year ending June 30, 1893—Cont'd.

## WEATHER BUREAU—GENERAL EXPENSES—Continued.

Date.	Name.	Nature of payment.	Total.
1893.			
Jan. 2	New York Central and Hudson River R. R. Co.	Freight charges.....	\$6.20
2	Philadelphia and Reading R. R. Co.	.....do.....	1.20
2	Vandalia Line.....	.....do.....	51.72
2	Cleveland, Cincinnati, Chicago and St. Louis Rwy. Co.	.....do.....	7.01
2	Old Dominion Steamship Co.....	.....do.....	4.07
2	Norfolk and Washington (D. C.) Steamboat Co.	.....do.....	21.29
2	Edward Drinkwater.....	.....do.....	1.12
2	Hastings Steamboat Co.....	.....do.....	13.90
2	C. H. Mallory & Co.....	.....do.....	3.49
2	O. T. Stacy.....	Drayage.....	.75
2	Adolph Oswald.....	Repairing wind vane, etc.....	10.50
2	Frank Bird.....	Hauling.....	2.00
2	J. R. Williams.....	Drayage.....	1.00
2	W. M. Case.....	Services for December.....	40.00
2	C. V. McDonald.....	Construction of skylight.....	17.00
2	Bay City and Tillamook Telephone Co.	Transmitting messages, July 1 to Sept. 30.....	7.90
4	Geo. M. Chappel.....	Traveling expenses, October.....	44.62
4	Cook and Kiernan Transportation and Storage Co.	Labor and material.....	120.13
4	Northern Pacific R. R. Co.....	Transportation.....	12.25
4	Frank H. Fee.....	Paint, etc.....	22.11
4	Pennsylvania R. R. Co.....	Transportation.....	42.00
4	B. H. Bronson.....	Repairing weather vane.....	2.03
4	W. E. Stark.....	Stove grate, teakettle, etc.....	4.85
4	George Reeder.....	Traveling expenses, November and December.....	50.60
4	Julien P. Friez.....	Rain gauges.....	570.00
4	L. M. Pindle.....	Traveling expenses, December.....	61.13
4	Matthew Tierney.....	Services, Nov. 20 to 31.....	22.00
4	do.....	Services, Dec. 1 to 21.....	42.00
4	J. C. Entwistle.....	Engraving.....	85.00
4	Alexander Pavarini & Son.....	Instrument shelters.....	161.25
4	Iowa Union Telegraph Co.....	Telephone service, Oct. 1 to Dec. 31.....	12.00
4	The Bell Telephone Company of Buffalo.	Rent of telephone, Oct. 1 to Dec. 31.....	17.50
4	Pay roll, Woods Holl, Mass., substation.	Salaries, Oct. 1 to Dec. 31.....	60.00
4	Robert G. Goffin.....	Services as cleaner, Oct. 1 to Dec. 31.....	9.00
4	Pay roll, Jacksonville, Fla., substation.	Salaries, Oct. 1 to Dec. 31.....	45.00
4	Pay roll, Augusta, Ga., substation.	Salaries, Oct. 1 to Nov. 30.....	103.60
4	Pay roll, New Orleans, La., substation.	do.....	223.60
4	M. Wright.....	Carriage hire.....	4.50
11	East Tennessee, Virginia and Georgia Rwy. Co.	Transportation.....	4.93
11	The Wabash R. R. Co.....	do.....	12.32
11	Cleveland, Cincinnati, Chicago and St. Louis Rwy. Co.	do.....	24.45
11	Pennsylvania R. R. Co.....	Freight charges.....	17.68
11	Wyoming Midland Telephone Co.	Transmitting messages, November.....	12.82
11	C. F. R. Wappenhaus.....	Traveling expenses, December.....	6.35
11	Geo. R. Marquette.....	Services, Oct. 1 to Dec. 31.....	15.00
11	Humphrey Manufacturing Co.	Erecting water gauge.....	46.75
11	Burroughs & Vivian Bros.....	Ink and mucilage.....	2.90
11	Wm. H. Talley.....	Repairing river gauge.....	5.00
11	C. G. Abercombe.....	Coal.....	5.75
11	D. P. Ottenheimer.....	Window curtains.....	12.00
11	I. M. Cline.....	Expenses, December.....	46.50
11	John A. Barker.....	Services as cleaner, Oct. 1 to Dec. 31.....	9.00
11	Wyckoff, Seamans & Benedict	Repairing typewriter.....	45.00
11	W. H. Garlock & Co.....	Washing towels, Aug. 18 to Dec. 27.....	3.06
11	Church & Stephenson.....	Lumber.....	2.10
11	John C. Parker.....	Paper.....	167.46
11	William H. Carden.....	Services, Oct. 1 to Dec. 31.....	23.00
11	F. A. Buechler.....	Waxed ends.....	6.00
11	W. B. Stockman.....	Expenses, December.....	46.50
11	David Cuthbertson.....	do.....	46.50
11	J. G. Banks.....	Lamp burner, etc.....	1.10
11	B. S. Payne.....	Crating desk.....	1.60
11	C. E. Haynes.....	Services as cleaner, Oct. 1 to Dec. 31.....	15.00
11	W. C. Thomas.....	Relettering frames.....	26.52

Expenditures Department of Agriculture for fiscal year ending June 30, 1893—Cont'd.

## WEATHER BUREAU—GENERAL EXPENSES—Continued.

Date.	Name.	Nature of payment.	Total.
1893.			
Jan. 11	W. S. Gosnell	Services as cleaner, December	\$5.00
11	Cleveland Telephone Co.	Telephone rent and exchange, Oct. 1 to Dec. 31	18.00
11	B. Nowell	Services as cleaner, December	5.00
11	W. L. Moore	Traveling expenses, January	9.75
12	E. E. Spencer	Traveling expenses, December	15.25
11	Pay roll, Mobile, Ala., substation.	Salaries, October and November	92.80
12	T. Graves	Labor and material	17.00
12	John J. Veedor	Hire of boat	5.00
12	James Cameron	Hire of team	2.00
12	Geo. W. Maury	Hire of boat	1.00
12	Pay roll, Erie, Pa., substation.	Salaries, Oct. 1 to Dec. 10	46.46
12	John H. Fox & Co.	Repairing desk	5.00
12	Jennie Pritchett	Services as cleaner, December	3.00
12	W. B. Moses & Sons	Mattting, etc	51.18
12	W. T. Galliher & Bro.	Lumber	134.87
12	H. C. Frankenfield	Traveling expenses, December	9.25
12	Philadelphia, Reading and Pottsville Telegraph Co.	Transmitting messages, November	7.39
12	Enterprise Telegraph Co.	do	1.30
12	The Great Northwestern Telegraph Co.	Transmitting messages, October	164.22
12	Edison Mutual Telegraph Co.	do	7.50
12	Minneapolis, St. Paul and Sault Ste. Marie Rwy. Co.	Transmitting messages, November	20.73
12	New England Telephone and Telegraph Co.	do	2.20
12	S. H. Wright	Services, Aug. 15 to Oct. 14	91.50
12	Great Northwestern Telegraph Co.	Transmitting messages, November	161.15
12	Clarksburg and Weston Telegraph Co.	do	11.80
12	J. H. Bunnell & Co.	Cable conductor	257.50
12	Frank Bianchi	Services as cleaner, Oct. 1 to Dec. 31	9.00
12	J. P. Slaughter	Express charges	1.10
12	Thos. Robinson	Services, December	25.00
12	Amasa S. Dyer	Services, Oct. 1 to Dec. 31	30.00
12	Pay roll, Galveston, Tex., substation.	Salaries, October and November	179.80
12	Benj. R. Stuart	Traveling expenses	1.00
12	Pay roll, Milwaukee, Wis., substation.	Salaries, Oct. 1 to Dec. 31	185.84
12	Louis C. Cover	Traveling expenses	5.25
12	Campbell & Gregg	Towel supply, Oct. 1 to Dec. 31	3.00
12	Thos. Cleary	Services as cleaner, Oct. 1 to Dec. 31	9.00
12	F. M. Brown & Co.	Altering flagstaff, etc	85.00
12	Samuel H. McCauley	Labor and material	15.00
12	Pay roll, New Haven, Conn., substation.	Salaries, Oct. 1 to Dec. 31	76.50
12	Charles Hayman	Services as cleaner, Oct. 1 to Dec. 31	7.50
12	Thos. Duncan	Services, Oct. 1 to Dec. 31	24.00
12	City Gaslight Co.	Electric light, Oct. 1 to Dec. 31	6.00
12	Seaboard and Roanoke R. R. Co.	Transportation	8.05
12	C. L. Crocker	Services, Sept. 1 to Dec. 31	20.00
12	C. P. McLane	Labor and material	25.00
12	Wm. A. Johnson	Services, Oct. 1 to Dec. 31	30.00
12	Roberts & Bishoff	Labor and material	57.00
12	E. A. Sawyer	Running levels	10.00
12	H. A. Yarnell	Cleaning line battery, etc	2.50
12	C. Endress & Sons	Transmitting messages, Oct. 2 to Nov. 26	12.00
12	Delaware and Atlantic Telegraph and Telephone Co.	Telephone service, Oct. 1 to Dec. 31	12.00
12	P. H. Seewald	Repairing clock, etc	2.50
12	J. A. Sutherland	Repairing table, etc	3.00
12	William H. H. Smith	Hire of teams	13.50
12	Miles Jackson	Services as cleaner, December	5.00
12	East Tennessee Telephone Co.	Telephone service, Oct. 1 to Dec. 31	15.00
12	E. E. Howes	Hire of team	2.00
12	W. H. Goffin	Hire of boat	4.00
12	Charles Gregory	Services as cleaner, December	5.00
12	Pay roll, Narragansett Pier, R. I., substation	Salaries, October, November, December	60.00
12	A. Ashenberger	Traveling expenses	8.50
12	A. B. Crane	do	1.75
12	H. M. Knowles	Changing telegraph poles	3.00
12	Andrew Renz	Sharpening knives	3.00
12	Williams & Hanks	Leather belt	21.00
17	Foster Hardware Co.	Stove grate	1.00

Expenditures Department of Agriculture for fiscal year ending June 30, 1893—Cont'd.

## WEATHER BUREAU—GENERAL EXPENSES—Continued.

Date.	Name.	Nature of payment.	Total.
1893.			
Jan. 17	W. B. McMurray	Marking river gauge	\$5.00
17	George Meier & Co.	Boxwood, etc.	34.00
17	Central Union Telephone Co.	Telephone service, Oct. 1 to Dec. 31	81.00
17	New England Telephone and Telegraph Co.	Telephone rent, Oct. 1 to Dec. 31	12.50
17	Temple & Farrington	Ink and matches	1.15
17	H. S. Thresher	Coal and wood	46.00
17	Oregon Telephone and Telegraph Co.	Telephone rent, Oct. 1 to Dec. 31	22.50
17	The J. S. Menken Co.	Rug	50.00
17	Robert Clark & Co.	Mucilage and ink	4.92
17	E. & N. Manufacturing Co.	Oak case	95.00
17	Union Ice Co.	Ice, Oct. 1 to Dec. 31	6.52
17	J. T. Harper	Coal	42.75
17	M. E. Muloy	Weather strips	10.00
17	Wallace Gould	Labor	10.00
17	R. W. Burton	Ink, mucilage	1.00
17	Pay roll, St. Paul, Minn., sub-station.	Salaries, Oct. 1 to Dec. 31	46.00
17	Wm. Stork	Coal	23.35
17	J. L. Breckenridge	Benzine, etc.	4.65
17	Woodley & Primur	Corn	18.00
17	Joseph A. Smith	Lamp shade, etc.	2.00
17	Pay roll, Harrisburg, Pa., sub-station.	Salaries, Oct. 1 to Dec. 31	97.00
17	Pay roll, Shreveport, La.	do	95.85
17	Pay roll, Louisville, Ky.	do	27.60
17	Frank Johnson	Services, Dec. 17 to Dec. 29	16.25
17	Pay roll, Raleigh, N. C., sub-station.	Salaries, Oct. 1 to Dec. 31	104.00
17	Daniel Hoesli	Washing towels, etc., Oct. 1 to Dec. 31	5.25
17	L. Christi	Services as cleaner, November and December	6.00
17	Jno. M. Klein	Labor and material	1.20
17	A. J. Duesberry	Services, Oct. 25 to Dec. 31	11.13
17	D. L. Booze	Services, Nov. 1 to Dec. 31	10.00
17	A. H. Webb	Services, Oct. 1 to Dec. 31	24.00
17	Montgomery Light Co.	Gas, Oct. 1 to Dec. 31	5.00
17	James Evans	Services as cleaner, Oct. 1 to Dec. 31	9.00
17	Emma Ling	Services as cleaner, Dec. 1 to Dec. 31	5.00
17	Memphis Light and Power Co.	Electric lights, December	7.76
17	George Harris	Services as cleaner, Oct. 1 to Dec. 31	15.00
17	H. Flegel	Varnishing, etc., furniture	10.00
17	United States Express Co.	Express charges	2.50
17	Andrew B. Graham	Engraving	10.00
17	Forsberg & Murray	Rod for anemometer, etc.	14.00
17	Wm. Ballantyne & Sons	Paper	270.00
17	The Atchison, Topeka and Santa Fe R. R. Co.	Transportation	96.95
17	American Bell Telephone Co.	Transmitters	35.20
17	W. H. Hammon	Traveling expenses, November	46.20
17	Thomas Robinson	do	7.48
17	National Mail Co.	Transportation	15.00
17	Cincinnati, Hamilton and Dayton R. R. Co.	do	25.80
17	Illinois Central R. R. Co.	do	29.50
17	Yazoo and Mississippi Valley R. R. Co.	do	6.60
17	Julien P. Friez	Case for instruments, etc.	13.75
17	J. B. Marbury	Hauling	4.50
17	Berliner & Bro.	Lead	10.20
17	John M. Temple	Oil, matches, etc.	7.49
17	R. J. Hyatt	Hauling	1.15
17	Jas. I. Widmeyer	Drayage	1.25
17	Colorado Springs Furniture Co.	Stand for letterpress	2.50
17	H. T. Gullixson & Co.	Carpet	32.00
17	Toklas & Kaufman	Carpet, etc.	17.50
17	J. G. Irwin	Repairing river gauge	12.00
17	Roderick Berrio	Replacing halyards on staff	1.25
17	O. D. La Don	Traveling expenses	6.85
17	The Bowditch Pruderes Co.	Table, etc.	26.00
17	Geo. E. David	Radiator	13.40
17	Bishop Gutta Percha Co.	Submarine cable	49.50
17	Chesapeake and Ohio R. R. Co.	Transportation	2.60
17	Minneapolis and St. Paul Rwy.	Freight charges	1.47
17	J. Tunkkari	Services, Dec. 1, 2, and 3	7.50
17	Pay roll, Kansas City, Kans., substation.	Salaries, Oct. 1 to Dec. 31	63.80

Expenditures Department of Agriculture for fiscal year ending June 30, 1893—Cont'd.

## WEATHER BUREAU—GENERAL EXPENSES—Continued.

Date.	Name.	Nature of payment.	Total.
1893.			
Jan. 17	J. H. Mills & Co.	Stencil punches.	\$22.50
17	Royce & Marean	Electric supplies.	7.65
17	Carl & Abel	Ratchet wheel.	8.50
18	Buffalo Board of Trade	Office rent, Buffalo, Oct. 1 to Dec. 31	142.06
18	Charles E. Bryant, receiver	Office rent, Huron, S. Dak., Oct. 1 to Dec. 31	78.25
18	Grand Trunk Rwy.	Transportation	18.00
18	Wilmington and Weldon R. R. Co.	do	13.55
18	do	do	8.05
18	New York Central and Hudson River R. R. Co.	do	11.20
18	Rafael Junquera	Postage, etc.	1.75
18	Pacific Postal Telegraph-Cable Co.	Transmitting messages, November	11.91
18	Chicago, Rock Island and Pacific Rwy. Co.	Transportation	47.32
18	R. McKean Barry	Traveling expenses, December	6.25
18	Cleveland Cartage and Storage Co.	Cartage	3.25
18	John G. Whitcomb	Repairing signal staff	11.25
18	Cator Woolford	Services, Dec. 16 to 24	11.25
18	Pay roll, Savannah, Ga., sub-station.	Salaries, Oct. 1 to Dec. 31	66.00
18	The Yale & Towne Manufacturing Co.	Hoisting cranes, etc.	750.00
18	L. & N. Jesunofsky	Drayage, etc.	1.65
18	Pay roll, Boston, Mass., sub-station.	Salaries, Oct. 1 to Dec. 31	396.00
18	Central R. R. Co. of New York	Transportation	6.50
18	Great Northern Rwy. Co.	Freight charges	5.94
18	do	do	.99
18	M. Ehresman	do	4.79
18	Thomas Roti	Services as cleaner, December	3.00
18	Pay roll, Nashville, Tenn., sub-station.	Repairing telegraph line	28.00
18	Brush Electric Light and Power Co.	Salaries, Oct. 1 to Dec. 31	44.30
18	P. Connor	Electric lights, Oct. 1 to Dec. 31	13.75
18	Anna L. Bean	Street-car tickets, November and December	5.75
18	Lee Fisk	Services, Oct. 1 to Dec. 31	9.20
18	Atchison, Topeka and Santa Fe R. R. Co.	Transportation	30.00
18	W. H. Renear	Hire of teams	18.15
18	Lake Michigan and Lake Superior Transportation Co.	Transportation	8.73
18	Northwestern Telegraph Exchange Co.	Telephone service, Oct. 1 to Dec. 31	20.00
18	J. H. Hannon	Telephone service	18.00
18	Combination Toilet Stand Co., Limited.	Repairing rain gauge	3.40
18	Adams Express Co.	Toilet service, December	1.50
19	Hillie Hoskins	Express charges, November and December	51.85
19	J. E. A. Harris	Services as cleaner, Oct. 1 to Nov. 15	4.88
19	C. H. Hussey	Services, Nov. 1 to Dec. 31	10.00
19	Southwestern Telegraph and Telephone Co.	Hauling	8.00
19	Richard Titus	Telephone service, Oct. 1 to Dec. 31	12.00
19	Pacific Telegraph and Telephone Co.	Services as cleaner, December	4.00
19	Great Southern Telegraph and Telephone Co.	Telephone service, Oct. 1 to Dec. 31	22.00
19	Henry Bolton	Telephone service, Oct. 1 to Dec. 31	15.00
19	P. M. DeVitt	Office rent, Alpena, Mich., Oct. 1 to Dec. 31	52.84
19	Amarillo Improvement Co.	Office rent, Abilene, Tex., Oct. 1 to Dec. 31	100.62
19	Real Estate and Law Building Co.	Office rent, Amarillo, Tex., Oct. 1 to Dec. 31	66.75
19	Pythian Land and Building Association.	Office rent, Atlantic City, N. J., Oct. 1 to Dec. 31	45.49
19	Baer & Bloch	Office rent, Astoria, Oregon, Oct. 1 to Dec. 31	75.25
19	First National Bank of Bismarck.	Office rent, Baker City, Oregon, Oct. 1 to Dec. 31	87.50
19	George W. Williams	Office rent, Bismarck, N. Dak., Oct. 1 to Dec. 31	99.00
19	S. A. Raymond, agent	Office rent, Charleston, S. C., Oct. 1 to Dec. 31	117.93
19	Smith & Swanison	Office rent, Cleveland, Ohio, Oct. 1 to Dec. 31	175.00
19	John H. Clune	do	10.00
		Office rent, Cheboygan, Mich., Oct. 1 to Dec. 31	49.50

Expenditures Department of Agriculture for fiscal year ending June 30, 1893—Cont'd.

## WEATHER BUREAU—GENERAL EXPENSES—Continued.

Date.	Name.	Nature of payment.	Total.
1893.			
Jan. 19	F. E. Warren	Office rent, Cheyenne, Wyo., Oct. 1 to Dec. 31	\$91.90
19	Chicago Auditorium Association	Office rent, Chicago, Ill., Oct. 1 to Dec. 31	172.57
19	B. S. Williams	Office rent, Concordia, Kans., Oct. 1 to Dec. 31	66.00
19	Columbus Board of Trade	Office rent, Columbus, Ohio, Oct. 1 to Dec. 31	100.00
19	Geo. French	Office rent, Corpus Christi, Tex., Oct. 1 to Dec. 31	86.37
19	Masonic Temple Association	Office rent, Davenport, Iowa, Oct. 1 to Dec. 31	75.00
19	E. F. Hallack	Office rent, Denver, Colo., Oct. 1 to Dec. 31	150.00
19	C. M. Beeson	Office rent, Dodge City, Kans., Oct. 1 to Dec. 31	97.91
19	Staples & Pelan	Office rent, Dubuque, Iowa, Oct. 1 to Dec. 31	57.12
19	American Exchange Bank	Office rent, Duluth, Minn., Oct. 1 to Dec. 31	114.47
19	Lucius M. Sheldon	Office rent, El Paso, Tex., Oct. 1 to Dec. 31	84.42
19	H. H. Bushne	Office rent, Eureka, Cal., Oct. 1 to Dec. 31	72.41
19	Fresno Loan and Savings Bank	Office rent, Fresno, Cal., Oct. 1 to Dec. 31	100.00
19	Galveston Cotton Exchange	Office rent, Galveston, Tex., Oct. 1 to Dec. 31	78.25
19	W. L. R. A. & E. H. Andres	Office rent, Grand Haven, Mich., Oct. 1 to Dec. 31	59.32
19	Margaret Parmentier	Office rent, Green Bay, Wis., Oct. 1 to Dec. 31	75.00
19	Broadwater & Pepin	Office rent, Havre, Mont., December	30.00
19	Homer W. Styron	Office rent, Hatteras, N. C., Oct. 1 to Dec. 31	38.62
19	Montana National Bank	Office rent, Helena, Mont., July 1 to Dec. 31	250.00
19	B. A. Jenne	Office rent, Idaho Falls, Idaho, Oct. 1 to Dec. 31	25.00
19	Abbie S. Ingalls	Office rent, Indianapolis, Ind., Oct. 1 to Dec. 31	83.83
19	R. McLaughlin	Office rent, Jacksonville, Fla., Oct. 1 to Dec. 31	78.05
19	Albert Marty	Office rent, Kansas City, Mo., Oct. 1 to Dec. 31	169.49
19	Kearney Opera House	Office rent, Kearney, Nebr., Oct. 1 to Dec. 31	75.00
19	Annie A. McGovern	Office rent, Keeler, Cal., Oct. 1 to Dec. 31	85.91
19	Matt Borland	Office rent, Lander, Wyo., Oct. 1 to Dec. 31	90.00
19	Catherine Wilson	Office rent, Los Angeles, Cal., Oct. 1 to Dec. 31	104.82
19	Courier-Journal Co.	Office rent, Louisville, Ky., Oct. 1 to Dec. 31	69.00
19	J. G. Payne, Attorney	Office rent, Lynchburg, Va., Oct. 1 to Dec. 31	67.50
19	Melina Wilcke	Office rent, Manistee, Mich., Oct. 1 to Dec. 31	56.25
19	Walker & Hall	Office rent, Meridian, Miss., Oct. 1 to Dec. 31	70.00
19	Cotton Exchange Building Co.	Office rent, Memphis, Tenn., Oct. 1 to Dec. 31	120.00
19	John L. Mitchell, executor	Office rent, Milwaukee, Wis., Oct. 1 to Dec. 31	163.75
19	Stock Growers' National Bank	Office rent, Miles City, Mont., Oct. 1 to Dec. 31	37.50
19	Vernon H. Harris	Office rent, Micco, Fla., Oct. 1 to Dec. 31	16.25
19	L. N. Heil	Office rent, Montrose, Colo., Oct. 1 to Dec. 31	98.00
19	Davidson & Joseph, agent	Office rent, Montgomery, Ala., Oct. 1 to Dec. 31	56.25
19	M. E. Conway	Office rent, Narragansett Pier, R. I., Oct. 1 to Dec. 31	37.74
19	Vanderbilt University	Office rent, Nashville, Tenn., Oct. 1 to Dec. 31	112.50
19	Pacific Club	Office rent, Nantucket, Mass., Oct. 1 to Dec. 31	72.50
19	F. M. Brown & Co	Office rent, New Haven, Conn., Oct. 1 to Dec. 31	100.00
19	Walla Walla Lodge, No. 56	Office rent, North Platte, Nebr., Oct. 1 to Dec. 31	84.87
19	C. E. Reed	Office rent, Northfield, Vt., Oct. 1 to Dec. 31	6.00
19	R. S. Dodson	Office rent, Norfolk, Va., Oct. 1 to Dec. 31	131.25
19	N. Overholser	Office rent, Oklahoma City, I. T., Oct. 1 to Dec. 31	101.75
19	First National Bank of Palestine	Office rent, Palestine, Tex., Oct. 1 to Dec. 31	78.50
19	National Bank of Commerce	Office rent, Pierre, S. Dak., Oct. 1 to Dec. 31	112.00
19	Puget Sound Coöperative Colony	Office rent, Port Angeles, Wash., Oct. 1 to Dec. 31	59.00
19	Portland Trust Co. of Oregon	Office rent, Portland, Oregon, Oct. 3 to Dec. 31	146.77
19	Paul Wilson	Office rent, Pueblo, Colo., Oct. 1 to Dec. 31	84.00
19	Thomas Sweeney	Office rent, Rapid City, S. Dak., Oct. 1 to Dec. 31	100.76

Expenditures Department of Agriculture for fiscal year ending June 30, 1893—Cont'd.

## WEATHER BUREAU—GENERAL EXPENSES—Continued.

Date.	Name.	Nature of payment.	Total.
1893.			
Jan. 19	Hannah S. Simmons.....	Office rent, Red Wing, Minn., Oct. 1 to Dec. 31.	\$70.00
19	Cone & Kimball Co.....	Office rent, Red Bluff, Colo., Oct. 1 to Dec. 31.	100.99
19	S. Marks & Co.....	Office rent, Roseburg, Oregon, Oct. 1 to Dec. 31.	75.50
19	Savannah Board of Trade.....	Office rent, Savannah, Ga., Oct. 1 to Dec. 31.	78.25
19	Salt Lake Board of Trade.....	Office rent, Salt Lake City, Utah, Oct. 1 to Dec. 31.	137.50
19	W. H. Wood & Co.....	Office rent, Sacramento, Cal., Oct. 1 to Dec. 31.	75.00
19	L. G. Nesmith.....	Office rent, San Diego, Cal., Oct. 1 to Dec. 31.	120.00
19	H. H. Taylor, agent.....	Office rent, San Francisco, Cal., Oct. 1 to Dec. 31.	100.00
19	Alarm Fire Insurance Co.....	Office rent, San Antonio, Tex., Oct. 1 to Dec. 31.	75.00
19	J. C. DeLany.....	Office rent, Ft. Stanton, N. Mex., Oct. 1 to Dec. 31.	120.00
19	St. Paul Chamber of Commerce Building Co.	Office rent, St. Paul, Oct. 1 to Dec. 31.....	75.21
19	First National Bank of Sault Ste. Marie.	Office rent, Sault Ste. Marie, Mich., Oct. 1 to Dec. 31.	85.75
19	James Baker.....	Office rent, Springfield, Mo., Oct. 1 to Dec. 31	68.75
19	E. H. Jamieson.....	Office rent, Spokane, Wash., Oct. 1 to Dec. 31.	64.20
19	E. A. Clark & Co.....	Office rent, Tampa, Fla., Oct. 1 to Dec. 31.	77.82
19	D. S. Hutchinson.....	Office rent, Titusville, Fla., Oct. 1 to Dec. 31.	85.74
19	The Columbian Building Co.....	Office rent, Topeka, Kans., Oct. 1 to Dec. 31.	87.50
19	Riley Watson.....	Office rent, Valentine, Nebr., Oct. 1 to Dec. 31.	103.53
19	A. P. Eagleston.....	Office rent, Vineyard Haven, Mass., Oct. 1 to Dec. 31.	100.00
19	Paine Brothers.....	Office rent, Wallawalla, Wash., Oct. 1 to Dec. 31.	73.95
19	P. Laveaga, county treasurer.....	Office rent, Winnemucca, Nev., Oct. 1 to Dec. 31.	67.00
19	Sedgwick Building Investment Co.	Office rent, Wichita, Kans., Oct. 1 to Dec. 31.	90.75
19	F. L. Jackson, agent.....	Office rent, Yankton, S. Dak., Oct. 1 to Dec. 31.	24.75
19	Central District and Printing Telegraph Co.	Telephone service, Oct. 1 to Dec. 31.....	12.50
19	Bell Telephone Co. of Philadelphia.	do.....	30.00
19	Black Hills Telegraph and Telephone Co.	do.....	21.00
21	C. C. Ames.....	Repairing U. S. telegraph line.....	25.00
21	H. L. Ball.....	Traveling expenses.....	10.13
21	Chicago, Burlington and Quincy R. R. Co.	Transportation.....	26.60
21	Chicago and Northwestern Rwy. Co.	do.....	19.00
21	Western Electric Co.....	Repairing magnetic bells.....	80.00
21	Pay roll, Cairo, Ill., substation.	Salaries, October, November, and December.	249.85
21	Park Morrill.....	Mucilage, kerosene, etc.....	7.85
21	Edward A. Evans.....	Traveling expenses, etc.....	14.10
21	Pay roll, St. Louis, Mo., substation.	Salaries, Oct. 1 to Dec. 31.....	293.30
21	Pay roll, Chattanooga, Tenn., substation.	do.....	147.79
21	C. M. Donovan.....	Washing towels.....	1.50
21	Willie Judkins.....	Services as cleaner, Nov. 16 to Dec. 31.....	4.82
21	J. J. Hobz.....	Erecting river gauge.....	20.00
21	I. S. Mansfield.....	Mucilage.....	2.50
21	E. F. Lyons.....	Cartage.....	1.50
21	W. C. Henderson.....	Coal.....	15.04
21	C. G. Abercrombie.....	do.....	5.75
21	A. H. H. Stuart.....	Office rent, Olympia, Wash., Oct. 1 to Dec. 31	120.00
21	Bryant McEachin & Luce.....	Office rent, Fort Smith, Ark., Oct. 1 to Dec. 31.	90.41
21	George S. Waite.....	Office rent, Key West, Fla., Oct. 1 to Dec. 31	103.86
21	Wm. Crawford.....	Office rent, Pysht, Wash., Sept. 1 to Dec. 31	40.00
21	E. T. Webber.....	Office rent, Santa Fe, N. Mex., Oct. 1 to Dec. 31	90.00

Expenditures Department of Agriculture for fiscal year ending June 30, 1893—Cont'd.

## WEATHER BUREAU—GENERAL EXPENSES—Continued.

Date.	Name.	Nature of payment.	Total.
1893.			
Jan. 21	Pay roll, Charleston, S. C., sub-station.	Salaries, Oct. 1 to Dec. 31 .....	\$192.90
21	The Wabash R. R. Co .....	Transportation .....	11.50
21	Thomaston and Barnesville Telephone Line.	Transmitting messages, October and November.	3.50
21	Pay roll, Cincinnati, Ohio, sub-station.	Salaries, Oct. 1 to Dec. 31 .....	369.56
21	Pay roll, Corpus Christi, Tex.	do .....	32.50
21	Rising Sun Telegraph Line.	Transmitting messages, Oct. 1 to Dec. 31 .....	6.10
21	Pay roll, Memphis, Tenn., sub-station.	Salaries, Oct. 1 to Dec. 31 .....	78.30
21	Pay roll, Montgomery, Ala.	do .....	344.65
21	Pay roll, Lacross, Wis., sub-station.	do .....	18.40
21	J. W. Thompson .....	Rent of telephone, Oct. 1 to Dec. 31 .....	15.00
21	Missouri and Kansas Telephone Co.	Telephone service, Oct. 1 to Dec. 31 .....	12.00
21	Southern Bell Telephone and Telegraph Co.	do .....	15.00
21	Central District and Printing Telegraph Co.	do .....	10.00
21	Telephone and Telegraph Construction Co.	do .....	16.25
21	Bell Telephone Co., of Missouri	do .....	15.00
21	Hudson River Telephone Co.	do .....	15.00
21	Southern Bell Telephone and Telegraph Co.	do .....	17.00
21	Atlanta Telephone Exchange	do .....	16.00
21	Southern Bell Telephone and Telegraph Co.	do .....	31.25
21	Chicago Telephone Co.	do .....	2.53
21	Chicago and Erie Stove Co., Limited.	Stove grate .....	44.90
21	Pay roll, Augusta, Ga., substation.	Salaries, Oct. 1 to Dec. 31 .....	13.00
21	Baltimore and Ohio R. R. Co.	Transportation .....	10.00
21	Maurice Joyce .....	Engraving .....	7.10
21	O. L. Fassig .....	Traveling expenses, September and October.	5.50
23	S. J. Lutz & Co .....	Spikes, etc. ....	2.00
23	G. H. Surret .....	Repairing river gauge .....	27.60
23	Pay roll, Ft. Smith, Ark., substation.	Salaries, Oct. 1 to Dec. 31 .....	23.00
23	Pay roll, Washington, D. C.	do .....	183.00
23	Pay roll, New Orleans, La.	do .....	455.90
23	Pay roll, Pittsburg, Pa.	do .....	185.84
23	Pay roll, Chicago, Ill.	do .....	45.00
23	Pay roll, Portland, Oregon	Repairing clock .....	6.44
23	Fred. Strauss & Co .....	Wood .....	8.75
23	A. J. Robbins .....	Matting .....	3.00
23	Samuel Schultz & Son .....	Wood .....	7.85
23	J. H. Krause .....	Gas, Oct. 1 to Dec. 31 .....	1.10
23	Astoria Gaslight Co.	Repairing United States telegraph line .....	56.25
23	J. R. Clinton .....	Labor and material .....	19.00
23	H. B. Coyle & Son .....	Extension table .....	3.50
23	G. F. Troxell .....	Services, Oct. 1 to Dec. 31 .....	13.00
23	J. H. Bickford .....	Mucilage and ink .....	1.80
23	H. J. Penrod .....	Desk, chairs, table, etc. ....	30.00
23	Colorado Springs Furniture Co.	Coal .....	21.00
23	Broadwater & Pepin .....	Hand lamps, etc. ....	1.55
23	W. A. Pate .....	Sash cord .....	2.95
23	James B. Lambie .....	Cardboard .....	12.00
23	J. C. Addison .....	Drayage, etc. ....	118.79
23	C. F. von Herrmann .....	Erecting instruments .....	1.80
23	Hollis Partlow .....	Rent of telephone, Oct. 1 to Dec. 31 .....	30.00
23	Pennsylvania Telephone Co.	Drayage, etc. ....	2.25
23	Geo. Reeder .....	Oil and broom .....	19.00
23	H. B. Cartwright .....	Telephone service, Oct. 1 to Dec. 31 .....	3.50
23	Erie Telegraph and Telephone Co.	Services, Oct. 1 to Dec. 31 .....	23.00
23	Joseph Evins .....	Rent of telephone, Oct. 1 to Dec. 31 .....	15.00
23	Great Southern Telephone and Telegraph Co.	Repairing wind vane .....	2.50
23	John J. Mulligan .....	Traveling expenses, January .....	3.25
23	H. R. Boynton .....	Office rent, Block Island, R. I., Oct. 1 to Dec. 31 .....	42.50
23	Lorenzo Littlefield .....	Ice, July 1 to Oct. 31 .....	9.84
23	C. E. Brown .....	Telephone service, Oct. 1 to Dec. 31 .....	15.00

Expenditures Department of Agriculture for fiscal year ending June 30, 1893—Cont'd.

## WEATHER BUREAU—GENERAL EXPENSES—Continued.

Date.	Name.	Nature of payment.	Total.
1893.			
Jan. 23	Arkansas Telephone Co.	Telephone service, Oct. 1 to Dec. 31	\$9.75
23	David James	Services as cleaner, Oct. 1 to Dec. 31	3.00
23	Southern Bell Telephone and Telegraph Co.	Rent of telephone, Oct. 1 to Dec. 31	15.00
23	Joseph Lawrence	Services, Oct. 1 to Dec. 31	21.00
23	East Tennessee, Virginia and Georgia R. R. Co.	Transportation	4.93
23	Kansas City, Fort Scott and Memphis R. R. Co.	do	5.45
23	Philadelphia, Reading and Pottsville Telegraph Co.	Transmitting messages, December	5.01
23	Chicago, Milwaukee and St. Paul R. R. Co.	Transportation	5.37
23	Baltimore and Ohio Southwestern R. R. Co.	do	18.55
23	Northern Pacific R. R. Co.	do	71.90
23	Nashville, Chattanooga and St. Louis R. R. Co.	do	6.90
23	Seth Graham & Son	Drayage	4.25
23	City Suburban Telephone Association.	Telephone service, Oct. 1 to Dec. 31	25.00
23	Duluth Telephone Co.	do	15.00
23	New York and Pennsylvania Telephone and Telegraph Co.	do	6.00
23	Missouri and Kansas Telephone Co.	do	18.00
23	Wisconsin Telephone Co.	Rent of telephone, Oct. 1 to Dec. 31	12.00
23	Sunset Telephone and Telegraph Co.	do	15.00
23	Southern Bell Telephone and Telegraph Co.	do	15.00
23	Wisconsin Telephone Co.	do	15.00
23	Jno. M. Klein	Brackets, etc.	12.50
23	Sunset Telephone and Telegraph Co.	Rent of telephone, Nov. 1 to Dec. 31	8.00
23	David Cole & Co.	Coal-oil stove	1.50
23	Noe & Sculley	Stove and fixtures	21.00
23	John C. Parker	Stationery	8.40
23	C. B. Fenton & Co.	Composition rollers	17.17
23	James B. Lambie	Sash cord	15.00
24	W. H. Hammon.	Traveling expenses	2.15
24	E. H. Thompson	do	10.75
24	C. F. Jones	Repairing United States telegraph line	10.00
24	Kate E. Reynolds	Services as cleaner, Oct. 1 to Dec. 31	15.00
24	A. B. Crocker	Services, Oct. 1 to Dec. 31	36.75
24	H. B. Coyle & Son	Making support for wind, vane	13.00
24	French & McComb	Erecting river gauge	4.00
24	C. R. Prouty	do	4.00
24	F. W. Krichelt	Traveling expenses, January	6.50
24	A. J. Mulligan	Services, Oct. 15 to Dec. 31	20.90
24	Paul H. Neuffer	Repairing clock	1.50
24	Southern Bell Telephone and Telegraph Co.	Telephone service, Oct. 1 to Dec. 31	15.00
24	First National Bank of Moosehead.	Office rent, Moosehead, Minn., Oct. 1 to Dec. 31.	66.31
24	Empire State Telephone and Telegraph Co.	Telephone service, Oct. 1 to Dec. 31	28.50
24	Telephone and Telegraph Construction Co.	Rent of telephone, Oct. 1 to Dec. 31	12.00
24	Cumberland Telephone and Telegraph Co.	Transmitting messages, Oct. 1 to Dec. 31	61.00
24	Southern New England Telephone Co.	Rent of telephone, Oct. 1 to Dec. 31	31.25
24	J. W. Branan	Services, July 1 to Dec. 31	30.00
24	Robert Little	Drayage	1.00
24	Jno. M. Klein	do	2.00
24	do	Repairing telegraph line	70.00
24	G. T. W. Wells	Repairing United States telegraph line	13.00
24	Sevrin Johnson	do	20.00
24	Homer J. Hart	do	2.50
24	Thomas Butler	do	25.00
24	Thomas Reed	do	17.50
24	John Campbell	do	31.25
24	George McFarland	do	3.75
24	J. A. Hatfield	Services, Oct. 1 to Dec. 31	30.00
24	E. Biondi	do	30.00
24	A. A. Day	Hire of team	1.90
24	J. C. Morrell	Services, December	20.00
24	Ohio Valley Telephone Co.	Telephone service, Oct. 1 to Dec. 31	18.00

Expenditures Department of Agriculture for fiscal year ending June 30, 1893—Cont'd.

## WEATHER BUREAU—GENERAL EXPENSES—Continued.

Date.	Name.	Nature of payment.	Total.
1893.			
Jan. 24	Whiteside & Walton.	Glycerine	\$2.25
24	W. A. Pate	Leather belt	1.50
24	C. B. Fenton & Co	Recasting rollers	6.50
26	F. T. Williams	Oil, etc	1.32
26	J. N. Applebaugh	Services for December	36.00
26	J. G. Hollingsworth	Services, Oct. 1 to Nov. 7	3.80
26	W. E. Butler	Traveling expenses, January	9.85
26	M. Cotter	Repairing telegraph line	7.59
26	C. F. R. Wappenhaus	Gumarabic	1.50
26	Frank Perry	Transmitting messages, Oct. 1 to Dec. 31	21.30
26	W. M. Wilson	Drayage, etc	2.25
26	Gibson Telegraph Line	Transmitting messages, Oct. 1 to Dec. 31	9.60
26	Pittsboro Telegraph Line	do	9.90
26	L. M. Pindell	Gas, December and January: drayage, etc	5.36
26	Wyoming Midland Telegraph Co.	Transmitting messages, December	14.60
26	William E. Hook, jr.	Transportation	10.00
26	J. H. Wheeler	Beef and ham	16.00
26	E. A. Brown	Traveling expenses, January	9.50
26	J. W. Smith	do	13.05
26	A. Schneider	Office rent, F. L. Buford, N. Dakota, Oct. 1 to Dec. 31	45.00
26	J. B. Grady	Office rent, Eastport, Me., Oct. 1 to Dec 31	105.93
26	Chas. Hughes	Labor and material	1.25
26	M. Cotter	Repairing telegraph line	31.25
26	Forsberg & Murray	Turning proof roller	5.50
27	Western Union Telegraph Line	Transmitting messages, July	1,545.72
27	do	Transmitting messages, August	12,896.35
28	Southern Pacific Co. attorney of system.	Freight charges	6.47
28	do	do	2.29
28	Merchant's Steamship Co.	do	4.32
28	Baltimore and Ohio R. R. Co.	do	47.34
28	Vandalia Line	do	25.48
28	Chicago and Northwestern Rwy. Co.	do	28.82
28	do	do	4.35
28	Pennsylvania R. R. Co.	do	4.83
28	Thos. J. Cowry	do	9.16
28	Star Union Line	do	52
28	Western Railway of Alabama	do	6.35
28	Ellen Hammond	Office rent, Detroit, Mich., July 1 to Dec. 31	425.00
28	Troy Steam Laundry	Washing towels, Nov. 12 to Dec. 31	1.00
28	Pennsylvania R. R. Co.	Freight charges	3.49
28	Chicago, Burlington and Quincy R. R. Co.	do	35.21
28	St. Louis and San Francisco Rwy.	do	8.77
28	C. H. Mallory & Co.	do	9.10
28	A. G. Elliot & Co.	Manila paper	153.00
28	Toklas & Kaufman	Window shades	8.65
28	Archie Marine	Painting	20.00
28	M. G. Copeland & Co.	Storm flags	2,953.10
28	H. D. Alds	Services, Oct. 1 to Dec. 31	9.20
28	William E. Hook, jr.	Transportation	20.00
28	The Friedenwald Co.	Maps	1,800.00
31	J. K. Robinson <i>et al.</i>	Printing roll for January	1,961.22
31	Geo. F. Flint <i>et al.</i>	Salaries for January	641.29
31	D. Cuthbertson	Expenses, January	46.50
31	W. B. Stockman	do	46.50
31	F. A. Schneider	Hardware	15.05
Feb. 1	Milton Whitney	Salary for January	206.70
1	Great Northwestern Telegraph Co.	Transmitting messages, September	161.81
1	Lake Shore and Michigan Southern Rwy. Co.	Transportation	10.00
1	do	do	10.00
1	John Gordon	Freight charges	3.55
1	Ohio River Telegraph Co.	Transmitting messages, October	12.47
1	Columbia River and Puget Sound Navigation Co.	Transportation	1.75
1	Norfolk and Western R. R. Co.	do	38.80
1	San Antonio and Aransas Pass Rwy. Co.	do	8.10
1	Moosehead Lake Telegraph Co.	Transmitting messages, Aug. 1 to Nov. 30	17.70
1	Chicago, Burlington and Northern R. R. Co.	Transmitting messages, November	8.00
1	Edison Mutual Telegraph Co.	do	6.77
1	East Tennessee, Virginia and Georgia Rwy. Co.	Transmitting messages, July 1 to Dec. 31	1.00

Expenditures Department of Agriculture for fiscal year ending June 30, 1893—Cont'd.

## WEATHER BUREAU—GENERAL EXPENSES—Continued.

Date.	Name.	Nature of payment.	Total.
1893.			
Feb. 1	Pennsylvania R. R. Co.	Transportation	\$69.00
1	Lenoir Blowing Rock Telegraph Co.	Transmitting messages, Oct. 1 to Dec. 31	9.60
1	Carson and Colorado R. R. Co.	Freight charges	2.00
1	Southern California Rwy. Co.	do	1.03
1	Leon J. Glaenzer & Co.	Cartage and storage	1.90
1	Yazoo and Mississippi Valley R. R. Co.	Transportation	17.20
1	Colorado College	Office rent, Colorado Springs, Colo., Nov. 1 to Dec. 31	43.50
	Merchants and Miners' Transportation Co.	Freight charges	14.51
1	Vandalia Line	do	1.80
1	Chicago, Burlington and Northern R. R. Co.	do	1.11
1	Duluth, South Shore and Atlantic R. R. Co.	do	3.95
1	Lowrman & Hanford	Caligraph	68.00
1	John W. Graham & Co.	Mucilage and ink	4125
1	Walter D. Tusten	Repairing clock	2.50
1	H. J. Cox	Cartage	3.00
1	Pascual Moreno	Services as janitor, Oct. 1 to Dec. 31	6.00
1	J. H. Harmon	Moving office furniture	2.00
1	Manhattan Supply Co	Cotton waste	46.64
1	C. Neth, administrator	Stove grate	1.25
1	Chicago, Burlington and Quincy R. R. Co.	Freight charges	18.07
1	J. A. W. Turner	Painting	2.50
1	Rathyen Bros.	Matches	1.00
1	Pay roll, Detroit, Mich. substation.	Salaries, Oct. 1 to Dec. 31	69.69
1	Postal Telegraph Cable Co.	Transmitting messages, Aug. 19 to Nov. 24.	6.20
1	John M. Williams	Hauling	1.88
1	Nordhoff & Knabe	Repairing clock	3.00
2	Minneapolis, St. Paul and Sault Ste. Marie Rwy. Co.	Transmitting messages, December	13.97
2	R. J. Hyatt	Traveling expenses	9.75
2	I. M. Cline	do	11.84
2	Ernst T. Giers	do	3.65
2	Michigan Bell Telephone Co.	Transmitting messages, Oct. 1 to Dec. 31	337.91
2	Little Northern Telegraph Co.	do	6.25
2	Pennsylvania Co.	Transportation	11.00
2	Charles L. Roehm	Binding weather maps	10.00
2	Telephone and Telegraph Construction Co.	Telephone service, Oct. 1 to Dec. 31	45.00
2	R. E. Kerkam	Reeving halyards	5.00
2	Charles Gregor	Services as cleaner, January	5.00
2	W. M. Case	Services, January	40.00
2	W. S. Gosnell	Services as cleaner, January	5.00
2	Wm. Goffin	Boat hire, January	7.00
2	James Cameron	Hire of team	2.50
3	The E. S. Greeley & Co.	Hardware	22.40
3	Payroll, Vicksburg, Miss., substation.	Salaries, Oct. 1 to Dec. 31	93.20
3	Charles Stewart	Drayage, etc	1.50
3	C. W. Tack	Binding weather maps	5.00
3	John C. Ingram	Painting	35.00
3	A. B. Logan	Erecting river gauge	35.00
3	Ullman Furniture Co.	Desk, table, chairs	63.00
3	H. Hoffa	Files	20.00
3	Keuffel & Esser Co.	Measuring sticks	105.00
3	A. Allen	Cleaning carpets	3.50
3	Julien P. Friez	Castings	1.85
3	Whiteside & Walton	Alcohol	15.00
3	F. A. Schneider	Tacks	10.00
3	Royce & Marean	Pliers	15.12
4	Thomas Robinson	Services for January	25.00
4	Lewis R. Dey	Stamps, with pads	7.50
4	W. Sherman	Burning oil	1.00
4	James Carss	Bench mark for river gauge	2.50
4	E. F. Bauscher	Erecting river gauge	30.00
4	James A. Barwick	Express charges	2.70
4	Miles Jackson	Services as cleaner, January	5.00
7	J. P. Slaughter	Hire of boat	2.00
7	J. N. Applebaugh	Services for January	36.00
7	S. L. Dosher	Post-office money orders	.88
7	D. C. Hibbard	Repairing telegraph line	24.00
7	H. P. Hardin	Hauling	1.50
7	John M. Klein	Roller on table	1.25
7	J. C. Morrell	Services as displayman, January	20.00

*Expenditures Department of Agriculture for fiscal year ending June 30, 1893—Cont'd.*

WEATHER BUREAU—GENERAL EXPENSES—Continued.

Date.	Name.	Nature of payment.	Total.
1893.			
Feb. 7	Cowperthwait Co.	Table, chairs, etc.	\$298.03
7	John C. Parker	Book paper	195.00
7	Alex. Pavarini & Son	Map frames	648.75
10	Webster, Fisher & Whitcomb	Repairing instruments	5.00
10	C. E. Bell & Co.	Night locks	1.50
10	John Campbell & Co.	Printing supplies	4.00
10	E. J. Brooks & Co.	Twine	27.40
10	Northwestern Paper Co.	Mucilage, ink, etc.	3.75
10	Pay roll, Mobile, Ala., substation	Salaries, December	54.30
10	W. L. Moore	Expenses, Jan. 3 to 31	43.50
10	W. E. Butler	Hauling, etc.	2.55
10	Johnson & Shepard	Repairing clock	1.00
10	L. R. White	Repairing telegraph line	3.00
10	J. Baumgarten & Son	Printing supplies	3.50
10	Easton & Rupp	Stationery	54.30
10	W. B. Moses & Sons	Carpet, etc.	42.37
10	Andrew Renz	Sharpening paper-cutter	3.00
10	Mark W. Harrington	Traveling expenses, January	24.60
10	Wm. Ballantyne & Sons	Stationery	120.93
10	H. C. Frankenstein	Expenses, January	46.50
10	W. A. Pate	Printing supplies	2.50
10	Maurice Joyce	Engraving, etc.	21.70
10	John M. Williams	Drayage	1.25
11	New Eng and Telephone and Telegraph Co.	Transmitting messages, July 1 to Dec. 31	2.60
11	Norfolk and Western R. R. Co.	Transportation	8.95
11	Chicago, Burlington and Northern R. R. Co.	Transmitting messages, December	4.78
11	Great Northwestern Telegraph Co.	do	141.30
11	New England Telephone and Telegraph Co.	Transmitting messages, July 1 to Dec. 31	9.45
11	A. Lawrence Rotch	Actinometers	29.00
11	A. G. Elliot & Co	Manila paper	76.80
11	J. C. Piercy	Drayage, etc.	1.00
11	International and Great Northern R. R. Co.	Transportation	4.60
11	Geo. B. Ackerman	Traveling expenses	1.50
11	H. C. Bate	do	4.70
11	G. W. Pancoast	do	9.00
11	Julien P. Friez	Anemometers	375.00
11	A. J. Robbins	Repairing United States telegraph line	2.50
11	First National Bank, Portland, Me.	Office rent, Portland, Me., Oct. 1 to Dec. 31	126.00
11	New England Telephone and Telegraph Co.	Telephone service, Oct. 1 to Dec. 31	12.50
11	do	Rent of telephone, Oct. 1 to Dec. 31	12.50
11	Charles Shea	Services, Oct. 1 to Dec. 31	30.00
11	Richard Titus	Services as cleaner, January	4.00
11	John Heizman	Cleaning regulator	3.00
11	Columbus Board of Trade	Office rent, Columbus, Ohio, January	24.58
11	A. Cutler & Son	Repairing tables	29.00
11	M. Tahey	Erecting instrument shelter	28.50
11	Reiley & Smith	Removal of office, etc.	30.00
11	Combination Toilet Stand Co.	Washing towels, January	1.50
11	Broadwater & Pepin	Coal oil	25.00
11	Emma Ling	Services as cleaner, January	5.00
11	Alabama and Vicksburg R. R. Co.	Freight charges	8.86
11	Louisville and Nashville R. R.	do	.81
11	Memphis Light and Power Co.	Rent of electric lights, January	6.64
11	N. B. Conger	Traveling expenses, July	48.50
11	P. F. Lyons	Traveling expenses, January	10.00
11	Geo. M. Chappel	do	14.65
11	Thos. J. Luttrell	Linen	3.25
11	Postal Telegraph Cable Co.	Transmitting messages	4.40
13	Cincinnati, New Orleans and Texas Pacific Rwy.	Freight charges	.48
13	Northern Central Rwy Co.	do	1.96
13	Vancouver Transportation Co.	do	.50
13	Anchor Line	do	8.03
13	Thos. J. Cowry	Drayage	.94
13	Baltimore and Ohio R. R. Co.	Transportation	21.70
13	do	Freight charges	17.27
13	Seaboard Air Line	do	2.50
13	Norfolk, Albemarle and Atlantic R. R. Co.	do	6.11
13	Raleigh and Gaston R. R. Co.	do	3.15
13	Wabash R. R. Co.	do	2.83
13	Fremont, Elkhorn and Missouri Valley R. R. Co.	do	3.20

Expenditures Department of Agriculture for fiscal year ending June 30, 1893—Cont'd.

## WEATHER BUREAU—GENERAL EXPENSES—Continued.

Date.	Name.	Nature of payment.	Total.
1893.			
Feb. 13	Baltimore and Ohio Southwest-ern R. R. Co.	Freight charges	\$19.29
13	Schooner Nellie Low	do	6.00
13	New York Central and Hudson River R. R. Co.	do	3.18
13	W. R. Henderson	Painting river gauge	5.00
13	E. A. Wyatt	do	6.00
13	M. Wright	Drayage	1.35
13	Julien P. Friez	Polyometers	32.00
13	J. M. Gallagher	Services Oct. 1 to Dec. 31	15.00
13	David Cuthbertson	Traveling expenses, February	6.25
13	Paul G. Schuh	Mucilage, ink, etc.	3.65
13	Michigan Central R. R. Co.	Freight charges	.67
13	Francis Chaves	do	.82
13	Louis Dorman	Services for cleaner, November and De-cember.	3.00
13	Norfolk and Washington, D. C. Steamboat Co.	Freight charges	2.85
13	do	do	6.43
13	United States Express Co.	Expressage, December and January	2.10
13	J. H. Mills and Co.	Printers' supplies	6.60
13	Whiteside and Walton	Glycerine	9.50
16	Joseph Chilberg	Office rent, Olympia, Wash., January	26.50
16	Willis Wilkins	Services, December	3.10
16	East Cleveland R. R. Co.	Street-car tickets	15.00
16	T. J. Wescott and Co.	Axe and helve	1.00
16	B. Newell	Services as cleaner, January	5.00
16	James Downey	do	3.00
16	Maurice Joyce	Engraving	26.58
16	do	do	58.50
16	Onellette and Gillis	Determining elevation of instrument	10.00
16	Gurney Cab and Transfer Co.	Hauling	7.00
16	Cowperthwaite Co.	Rugs	8.00
16	Joseph Gusshoven	Heating stone	17.50
16	Western Union Telegraph Co.	Transmitting messages, September 12	440.60
17	Clarksburg and Weston Tele-graph Co.	Transmitting messages, December	12.20
17	Smedley and Bros. Co.	Freight charges, December	2.79
17	A. Thomann	Copper figures for river gauge	1.00
17	Isaac Friedenwald	Wrappers	1,432.17
17	Richmond and Danville R. R.	Transportation	115.40
18	The Texas, Mexican Rwy. Co.	do	3.55
18	George W. Tindall	Wood	6.00
18	Pay roll, Atlanta, Ga. substation	Salaries, Oct. 1 to Dec. 31	113.41
18	Slocum Wire Works Co.	Repairing map-shading outfit	2.00
18	Wyoming Midland Telegraph Co.	Transmitting messages	13.80
18	M. Ehresman	Services as cleaner, January	3.00
18	E. L. Tyrrell	Repairing clock	2.00
18	Thos. H. Pease & Son	Mucilage, ink, etc.	3.25
18	B. F. Avery & Sons	Barbed wire	2.25
18	Illinois Central R. R. Co.	Transportation	5.60
18	C. P. Rohrbough	Services, January	7.75
18	William E. Hook, jr.	Transportation	10.00
20	J. W. Bauer	Traveling expenses	3.25
20	W. L. Moore	Expenses, February	21.00
20	W. B. Stockman	Traveling expenses	6.00
20	R. S. Manger	do	6.10
20	G. S. Jones	do	2.75
20	H. Irvine	do	14.90
20	F. A. Schneider	Printing supplies	5.75
20	J. C. Entwistle	Engraving	31.00
23	Pacific Postal Telegraph Cable Co.	Transmitting messages, December	8.67
23	Kingwood Cranberry Tele-graph Co.	Transmitting messages, July 1 to Dec. 31	12.90
23	Cincinnati, New Orleans and Texas Pacific Rwy. Co.	Transportation, I. M. Cline <i>et al.</i> , January	43.55
23	Old Colony R. R. Co.	Transportation, M. W. Harrington, Jan. 27	11.50
23	South Carolina Rwy. Co.	Transportation, B. R. Stuart, Dec. 27	4.50
23	Edison Mutual Telegraph Co.	Transmitting messages, December and January	13.10
23	R. G. Goffin	Hire of boat	5.00
23	James Cameron	Repairing United States telegraph line	2.00
23	H. E. Fagan	Repairing instrument shelter	3.00
23	Thayer & Jackson Stationery Co.	Binding maps	7.00
23	Wm. Forsyth & Son	Iron ladder to wind-vane	30.00
23	W. C. Stark	Bucksaw	3.00

Expenditures Department of Agriculture for fiscal year ending June 30, 1893—Cont'd.

## WEATHER BUREAU—GENERAL EXPENSES—Continued.

Date.	Name.	Nature of payment.	Total.
1893.			
Feb. 23	The J. K. Hill Co.	Caligraph.	\$68.00
23	D. C. Hibbard	Repairing United States telegraph line	21.00
23	John Campbell	do	12.50
23	G. W. Little	Flagstaff	11.00
23	Chas. A. Klein	Dabor and material	2.50
23	Postal Telegraph Cable Co.	Transmitting messages, January	4.20
24	Puget Sound and Alaska Steamship Co.	Transportation, H. Irvine, Nov. 23	2.00
24	New York Central and Hudson River R. R. Co.	Transportation, F. W. Krichelt, Jan. 4	17.07
24	Edward A. Beals	Traveling expenses, February	5.55
24	W. L. Moore	do	6.25
24	Forsberg & Murray	Wind-vanes, etc.	184.75
25	The Kingston Telegraph Co.	Transmitting messages, December	6.00
25	Star Union Line	Freight charges, November	5.10
25	Wilmington and Weldon R. R. Co.	do	6.08
25	Chicago, Burlington and Quincy R. R. Co.	Freight charges, December	5.80
25	Charleston and Savannah Rwy. Co.	Freight charges, November	2.75
25	Chas. M. Strong	Traveling expenses, February	37.75
25	Williams & Hanks	Printing supplies	9.46
25	J. C. Entwistle	Engraving	5.00
28	New Bedford, Martha's Vineyard and Nantucket Steamboat Co.	Freight charges, July 25	8.04
28	Julien P. Friez	Electrotypes	2.50
28	F. P. Chaffee	Traveling expenses, February	3.25
28	Orlof T. Brown	do	3.75
28	Sussfeld, Lorsch & Co	Telescope	60.00
28	James J. Oslin	Repairing river-gauge	6.00
28	The Manhattan Supply Co	Dark lanterns	48.75
28	E. J. Brooks & Co.	Nails	34.90
28	Pennsylvania R. R. Co.	Transportation, F. W. Krichelt, Jan. 2	32.73
28	Maurice Joyce	Engraving	40.25
28	John C. Parker	Stationery	26.25
28	W. A. Pate	Printing supplies	4.25
28	J. K. Robinson <i>et al.</i>	Printing roll for February	1,798.22
28	George F. Flint <i>et al.</i>	Climatology roll for February	653.60
28	H. C. Frankenstein	Expenses, February	42.00
28	W. T. Galliher & Bro.	Lumber	65.20
28	Mortimer Whitehead	Traveling expenses, February	31.35
Mar. 1	Milton Whitney	Services for February	186.60
1	T. Kircher	Repairing clock	1.50
1	Spaulding Bros	Repairing wind-vane	2.00
1	W. M. Case	Service, for February	40.00
1	W. S. Gasnell	Services as cleaner, February	5.00
1	Samuel N. Harwood	Repair of caligraph	2.50
1	Thomas Roti	Repairing United States telegraph line	14.00
1	C. E. McCrary	Painting, etc.	4.00
3	New York, New Haven and Hudson River R. R. Co.	Transportation, C. B. Tuch	21.50
3	R. E. Eastland	Services, Nov. 15 to Dec. 31	7.66
3	R. J. Hyatt	Traveling expenses, February	9.25
3	Pennsylvania R. R. Co.	Freight charges, November	5.26
3	Vandalia Line	do	10.31
1	Southern Pacific Co. (Atlantic system)	Freight charges, October	8.29
3	Hannibal and St. Joseph R. R.	Freight charges, October	2.08
3	Burlington and Missouri River Rwy. in Nebraska.	Freight charges, September	.53
3	Thaddeus Davids Co.	Stamping ink	30.00
3	St. Louis and San Francisco Rwy.	Freight charges, November	.75
3	Cincinnati, Hamilton and Dayton R. R. Co.	Freight charges, December	3.24
3	Sevrin Johnson	Repairing United States telegraph line	3.75
3	Thomas Butler	do	11.25
3	John Tunkkari	do	5.00
3	Levy, Dryfus & Co.	Alarm clocks	14.40
3	C. G. Abercrombie	Coal	2.75
3	Combination Toilet Stand Co.	Washing towels, February	1.50
3	Missouri and Kansas Telegraph Co.	Rent of telephone, Oct. 1 to Dec. 31	21.00
3	W. H. Walraven	Binding maps	6.00
3	E. H. Emery	Traveling expenses, February	2.50
3	George H. Davis	Binding maps	3.50
3	M. S. Gilbransen	Repairing wind-vane	2.00

Expenditures Department of Agriculture for fiscal year ending June 30, 1893—Cont'd.

## WEATHER BUREAU—GENERAL EXPENSES—Continued.

Date.	Name.	Nature of payment.	Total.
1893.			
Mar. 3	B. Nowell.....	Services as cleaner, February.....	\$5.00
3	John Noonan.....	Labor and material.....	12.50
3	Western Union Telegraph Co.....	Transmitting messages, July 1 to 27.....	9,019.61
3	Thomaston and Barnesville Telegraph Line.....	Transmitting messages, Dec. 1, 1892, to Jan. 31, 1893.....	2.90
3	Philadelphia, Reading and Pottsville Telegraph Co.....	Telegraphing, January.....	8.80
3	George M. Chappel.....	Expenses, Jan. 31 to Feb. 28.....	43.50
3	P. F. Lyons.....	Expenses, Jan. 30 to Feb. 28.....	45.00
3	E. L. Bugbee.....	Traveling expenses, February.....	3.00
3	John C. Parker.....	Typewriter ribbons, etc.....	122.16
8	Samuel Look.....	Expenses, February.....	20.50
8	Robert Mayer & Co.....	Printing supplies.....	71.90
8	F. Bader.....	Repairing wind-vane.....	1.75
8	B. A. Jenne.....	Office rent, Idaho Falls, Idaho, January.....	30.00
8	Eimer & Amend.....	Glass sunshine recorders.....	206.25
8	The E. S. Greely & Co.....	Electrical supplies.....	228.00
8	Chicago and West Michigan R. R. Co.....	Transportation, G. B. Ackerman, Jan. 30.....	5.35
8	B. S. Pague.....	Expenses, January and February.....	18.50
8	Cincinnati, New Orleans and Texas Pacific R. R. Co.....	Transportation, R. J. Hyatt, Feb. 1.....	2.45
8	Atchison, Topeka and Santa Fe R. R. Co.....	Freight charges, September.....	25.02
8	East Tennessee, Virginia and Georgia Rwy. Co.....	Transportation, H. C. Bate, Feb. 1.....	8.10
8	do.....	Freight charges, Nov. 9.....	13.51
8	J. E. Cairns.....	Expressage.....	2.00
8	Virginia and Truckee R. R. Co.....	Freight charges, Aug. 8.....	.47
8	Northeastern R. R. Co.....	Freight charges, Dec. 16.....	5.05
8	New York and New England R. R. Co.....	Freight charges, Oct. 25.....	1.04
8	W. C. Noon & Co.....	Signal flags.....	21.00
8	P. J. Bolton.....	Hauling, etc.....	1.75
8	Thos. Robinson.....	Services, February.....	25.00
8	John J. Mulligan.....	Painting wind-vane, etc.....	5.00
8	Lee Richardson & Co.....	Hardware.....	4.15
8	Joseph Chilberg.....	Office rent, Olympia, Wash., February.....	26.50
8	Jennie Pritchett.....	Services as cleaner, February.....	3.00
8	Geo. Ryneal, jr.....	Gum arabic.....	17.00
8	Maurice Joyce.....	Engraving.....	8.00
8	Forsberg & Murray.....	Labor and material.....	63.70
13	George F. Cram.....	State pocket maps.....	26.50
13	New England Telephone and Telegraph Co.....	Transmitting messages, January.....	2.50
13	Minneapolis, St. Paul, Sault Ste. Marie Rwy.....	do.....	22.00
13	Benj. R. Stuart.....	Cleaning office, etc.....	11.90
13	J. H. Thiemeyer & Co.....	Packing boxes.....	25.00
13	Charles Gregor.....	Services as cleaner, February.....	5.00
13	P. Connor.....	Street car tickets.....	4.70
13	Golding & Co.....	Plymouth Rock mailers.....	25.00
13	Wyckoff, Seaman & Benedict.....	Type writer and table.....	94.25
13	Robert C. Orrell.....	Repairing United States telegraph line.....	6.00
13	J. W. Hughes.....	do.....	1.50
13	Miles Jackson.....	Services as cleaner, February.....	5.00
13	J. C. Morrell.....	Services for February.....	20.00
13	John C. Parker.....	Stationery.....	262.50
13	F. A. Schneider.....	Dark lanterns.....	16.00
13	C. F. Marvin.....	Repairing instruments.....	2.35
14	Chas. M. Stoever.....	Map paper.....	366.40
14	W. C. N. Randolph, jr.....	Repairing weather-vane.....	20.60
14	Hannibal and St. Joseph Railroad.....	Freight charges, September.....	7.65
14	W. M. Wilson.....	Drayage.....	1.75
14	Pay roll, Kansas City, Mo., sub-station.....	Salaries, January and February.....	23.60
14	James Downey.....	Services as cleaner, February.....	3.00
14	J. N. Applebaugh.....	Services for February.....	36.00
14	A. J. Robbins.....	Repairing United States telegraph line.....	2.50
14	Jennie Pritchett.....	Services as cleaner, January.....	3.00
14	Richard Titus.....	Services as cleaner, February.....	4.00
14	E. A. Beals.....	Traveling expenses, February.....	10.50
14	Emma Ling.....	Services as cleaner, February.....	5.00
14	Julien P. Friez.....	Brass tubing, etc.....	8.10
14	John Fahe.....	Services as cleaner, February.....	3.00
14	John W. Byram.....	Traveling expenses, February.....	12.00
14	Benton Waldo Tpye Foundry.....	Casting roller.....	3.75
14	Albert Gall.....	Brussels rug.....	57.00

*Expenditures Department of Agriculture for fiscal year ending June 30, 1893—Cont'd.*

WEATHER BUREAU—GENERAL EXPENSES—Continued.

Date.	Name.	Nature of payment.	Total.
1893.			
Mar. 14	Great Northwestern Telegraph Co.	Transmitting messages, July 1 to Dec. 31.	\$659.88
14	Michigan Central R. R. Co.	Transportation, E. A. Brown Jan. 12.	24.60
14	Nashville, Chattanooga and St. Louis R. R. Co.	Transportation, H. C. Bate <i>et al.</i> , Jan. 30.	19.90
14	A. J. Davis	Traveling expenses, February.	14.25
14	Michael Fahey	Labor and material.	25.00
14	W. P. Briggs	Services, Jan. 1 to Feb. 28	5.90
14	Times Printing House	Binding maps	3.00
14	F. A. Buechler	Canvas covers, etc.	8.00
14	John M. Williams	Hauling	3.25
14	E. W. Raub	do	3.00
15	L. M. Dey, jr.	Traveling expenses, February	3.75
15	B. A. Jenne	Office rent, Idaho Falls, Idaho, February	30.00
15	J. D. Free, jr.	Milliographs, etc.	188.00
15	Andrew B. Graham	Engravings	45.00
15	John C. Parker	Stationery	210.00
15	J. B. Chamberlain	Seed plates	2.05
17	Great Northwestern Telegraph Co.	Transmitting messages, January	151.33
17	Memphis Light and Power Co.	Rent of electric lights, February, etc.	9.20
17	H. C. Frankenstein	Traveling expenses, March	7.00
17	E. Stacy	Services as cleaner, Jan. 1 to Feb. 28	7.50
17	Cobollie (Indian)	Erecting flagstaff	9.00
17	John G. Whitecomb	Labor and material	16.75
17	David Cuthbertson	Repairing caligraph, etc.	2.10
17	E. K. Myers	Stub books	4.00
17	Weston M. Fulton	Expenses February	2.50
17	E. T. Webber	Office rent, Santa Fe, N. Mex., Jan. 1 to Feb. 28	97.50
17	E. C. Everhart	Removing furniture, etc.	48.00
17	S. G. Duffey	Expenses March	5.25
17	D. N. Smith	Services, Jan. 1 to Feb. 28	5.80
17	Cleveland, Cincinnati, Chicago and St. Louis Rwy. Co.	Transportation, H. R. Patrick, Mar. 6	4.15
17	Louisville and Nashville R. R. Co.	Transportation, N. B. Conger <i>et al.</i> , Jan. 18	32.45
17	C. B. Fenton & Co	Recasting milliograph rollers	70.70
17	E. L. Bugbee	Traveling expenses, March	17.15
17	Adams Express Co.	Expressage, January and February	26.29
17	H. J. Penrod	Traveling expenses, March	3.00
18	Wm. Buckley	Repairing United States cable	300.00
18	Wyoming Midland Telegraph Co.	Transmitting messages February	12.35
18	John Ryan Type Foundry	Printing supplies	16.70
18	Paul H. Neuffer	Repairing anemometer	3.00
18	W. M. Fulton	Drayage, etc.	2.77
18	Henry Seymour, agent for Merritt Wrecking Organization	Repairing United States telegraph cable	300.00
18	St. Louis, Keokuk and Northwestern R. R. Co.	Transportation, R. J. Hyatt, Jan. 9	18.80
18	Northern Pacific R. R. Co.	Transportation, B. S. Pague, Jan. 28	7.00
18	Kansas City, Fort Scott and Memphis R. R. Co.	Transportation, F. C. Hall <i>et al.</i> , Jan. 9	17.97
18	Chicago, Milwaukee and St. Paul Rwy Co.	Transportation, W. L. Moore, Dec. 22	2.55
18	Chicago, Burlington and Northern R. R. Co.	Transportation, F. F. Lyons, Jan. 16	29.00
18	Pennsylvania R. R. Co.	Transportation, D. Cuthbertson <i>et al.</i> , Jan. 31	99.35
18	Allegheny Valley Rwy	Transportation, E. A. Beals, Feb. 9	5.40
18	William E. Hook, jr	Livery hire	20.60
18	Jol Coley	Services from Mar. 6 to 14	6.75
18	M. G. Copeland & Co	Flags	479.34
18	Andrew B. Graham	Engraving	5.00
20	Standard Thermometer Co.	Repairing thermograph	17.00
20	Fort Worth and Denver City Rwy. Co.	Freight charges, Oct. 22	2.41
20	New York and New England R. R. Co.	Freight charges, Jan. 31	8.20
20	Great Northern Rwy. Co.	Freight charges, Nov. 9	1.40
20	Louisville and Nashville R. R.	Freight charges, Oct. 20	5.78
20	J. C. Addison	Manila cardboard	41.25
23	Philadelphia, Reading and Pottsville Telegraph Co.	Transmitting messages, February	8.03
23	Gulf, Colorado and Santa Fe Rwy. Co.	Transportation, A. Ashenberger, Dec. 20	3.00
23	The Kingston Telegraph Co.	Transmitting messages, Jan. 1 to Feb. 28	11.20
23	Clarksburg and Weston Telegraph Co.	do	37.20

Expenditures Department of Agriculture for fiscal year ending June 30, 1893—Cont'd.

## WEATHER BUREAU—GENERAL EXPENSES—Continued.

Date.	Name.	Nature of payment.	Total.
1893.			
Mar. 23	H. C. Frankenfield	Traveling expenses, March	\$5.50
23	D. C. Hibbard	Repairing United States Telegraph line	15.25
23	Severen Johnson	do	16.25
23	Samuel R. Snecal	do	5.00
23	Arthur McNally	do	35.00
23	Thomas Reed	do	2.50
23	R. S. Smith	do	23.75
23	John Campbell	do	12.50
23	G. T. W. Wells	do	16.00
23	do	do	4.00
23	Isaac Friedenwald	Maps	1,800.00
23	G. H. Willson	Traveling expenses, February	10.50
23	Stephen Nadeau	Painting roof, etc	9.20
23	Jos. P. Fallihee	Repairing United States telegraph line	6.50
23	L. M. Bindell	Labor, drayage, etc	23.64
23	J. M. Sherier	Traveling expenses, March	4.50
23	Thomas Butler	Wood	24.00
23	L. Zeckendorf & Co.	Washstand, etc	7.15
23	Benj. R. Stuart	Traveling expenses, March	2.50
23	Broadwater & Pepin	Coal	19.00
23	The People's Furniture Co	Revolving chair	8.00
23	S. J. Lutz & Co	Washbowl and pitcher	2.50
23	H. C. Bate	Traveling expenses, March	20.15
23	Andrew B. Graham	Engraving	5.00
23	John C. Parker	Carbon paper, etc	30.00
25	C. W. Yates	Mucilage and ink	1.35
25	The Brunswick Bridge & Ferry Co., by D. L. Russell, lessee	Ferry tickets	30.00
25	D. Beaudette	Cleaning clock	1.50
25	John Tunkkari	Repairing telegraph line	3.50
25	A. F. Warren	do	7.00
25	S. S. Bassler	Drayage, etc	1.80
25	Indian River Steamboat Co.	Freight charges, November	4.50
25	Ohio & Mississippi Rwy. Co.	Freight charges, December	10.05
25	do	Freight charges, Oct. 4	19.78
25	do	Freight charges, Oct. 29	5.67
25	Merchants' Steamship Co.	Freight charges, Sept.	2.94
25	Narragansett Pier R. R.	Freight charges, Oct. 25	5.92
25	G. B. McCoy	Transmitting messages, February	6.00
25	Merchants & Miners' Tranpor-tation Co.	Freight charges, Jan. 11	17.29
25	Western Railway of Alabama	Freight charges, Nov. 1	3.16
25	Vicksburg, Shreveport and Pacific R. R. Co.	Freight charges, Oct. 8	2.43
25	J. N. Ryker	Traveling expenses, March	8.80
25	J. H. Harmon	do	18.25
25	W. P. Waters	Repairing clock	1.50
25	C. G. Abercrombie	Coal	2.75
25	Butler Bros	Painting wind vane	3.00
31	Julien P. Friez	Triple registers	1,250.00
31	The Standard Engraving Co.	Engraving	2.00
31	N. B. Conger	Traveling expenses, March	33.00
31	Leon J. Glaenzer & Co.	Thermometers, etc	47.52
31	J. W. Bauer	Traveling expenses, March	3.25
31	Geo. Muir & Co	Printing supplies	12.50
31	John M. Barr	Repairing flagstaff	10.00
31	Geo. F. Flint <i>et al.</i>	Climatology payroll	723.20
31	J. B. Chamberlain	Ribbons for typewriter	2.00
31	W. J. Taylor <i>et al.</i>	Printing payroll	2,003.01
31	Baltimore and Ohio R. R. Co.	Freight charges, Feb. 24	17.14
	Total third quarter.		88,524.26
Apr. 1	Milton Whitney	Services for March	206.70
1	Pacific Postal Telegraph Cable Co.	Transmitting messages, Jan. 15 to 31	.70
1	Tidewater Telephone Co.	Transmitting messages, Dec. 1 to Feb. 28	4.90
1	Minneapolis, St. Paul, Sault Ste. Marie Rwy. Co.	Transmitting messages, February	20.20
1	New England Telephone and Telegraph Co.	do	2.10
1	Chicago, Milwaukee and St. Paul Rwy. Co.	Freight charges, July 11	1.47
1	Henry A. Conklin	Drayage	10.00
1	Thos. J. Cowry	do	10.70
1	Ohio and Mississippi Rwy. Co.	Freight charges, Nov. 8	4.64
1	Great Northwestern Telegraph Co.	Transmitting messages, February	120.44
1	Chicago, Burlington and Northern R. R. Co.	Transmitting messages, January	7.84

Expenditures Department of Agriculture for fiscal year ending June 30, 1893—Cont'd.

## WEATHER BUREAU—GENERAL EXPENSES—Continued.

Date.	Name.	Nature of payment.	Total.
1893.			
Apr. 1	Chicago, Burlington and Northern R. R. Co.	Transmitting messages, February	\$6.96
1	Western Union Telegraph Co.	Rent of cable, Jan. 1 to Dec. 31	300.00
1	Isaac Friedewald	Maps	2,289.60
4	Iowa Union Telephone Co.	Rent of telephone, etc., Jan. 1 to Mar. 31	12.00
4	Central Union Telephone Co.	do	81.00
4	The Vicksburgh Furniture Co.	Washstand	8.00
4	W. M. Case	Services for March	40.00
4	C. L. Crocker	Services, Jan. 1 to Mar. 31	15.00
4	Horace A. Tilton	Making anemometer stand	12.00
4	Robert G. Goffin	Services as cleaner, Jan. 1 to Mar. 31	9.00
4	Pay roll, Woods Hall, Mass.	Substation, salaries, Jan. 1 to Mar. 31	60.00
4	The Bell Telephone Co.	Rent of telephone, Jan. 1 to Mar. 31	17.50
4	Black Hills Telegraph and Telephone Co.	do	21.00
4	Union Ice Co.	Ice, Jan. 1 to Mar. 31	6.60
4	Pacific Telephone and Telegraph Co.	Telephone Exchange, Jan. 1 to Mar. 31	22.50
4	J. W. Thompson	Rent of telephone, Jan. 1 to Mar. 31	15.00
4	New England Telephone and Telegraph Co.	do	12.50
4	John A. Barker	Services as cleaner, Jan. 1 to Mar. 31	9.00
4	Nebraska Telephone Co.	Telephone Exchange, March	2.00
4	The Bell Telephone Co., of Philadelphia	Telephone Exchange, Jan. 1 to Mar. 31	30.00
4	Wm. A. Johnson	Services, Jan. 1 to Mar. 31	30.00
4	Duluth Telephone Exchange	Telephone Exchange, Jan. 1 to Mar. 31	15.00
4	The Northwestern Telephone Exchange Co.	do	18.00
4	Pay roll, Jacksonville, Fla.	Substation, salaries, Jan. 1 to Mar. 31	45.00
4	G. P. Wilcox	Hire of boat, etc.	1.00
5	Pay roll, Corpus Christi, Tex.	Substation, salaries, Jan. 1 to Dec. 17	82.50
5	Western Railway of Alabama	Transportation, A. B. Conger, Jan. 17	5.25
5	Michigan Central R. R. Co.	Transportation, E. A. Beals, Feb. 25	25.00
5	Boston and Maine Railroad	Transportation, R. S. Manger, Mar. 21	17.50
5	W. S. Gosnell	Services as cleaner, March	5.00
5	The Empire State Telephone and Telegraph Co.	Telephone service, Jan. 1 to Mar. 31	13.50
5	Western New York and Pennsylvania R. R. Co.	Transportation, E. A. Beals, Feb. 2	5.40
5	Henry L. Hart	Repairing milliograph roller	1.00
5	The Morton Scott Robertson Co.	Canvas cover	6.00
5	S. S. Bassler	River gauging	4.75
5	John J. Veeder	Repairing United States telegraph line	2.00
5	Chas. A. Klein	Repairing office chair	1.00
5	John Tunkkari	Repairing United States telegraph line	2.50
5	Toilet Supply Co.	Washing towels, March	1.50
5	P. M. De Vitt	Office rent, Abilene, Tex., Jan. 1 to Mar. 31	100.62
5	Baer & Bloch	Office rent, Baker City, Oregon, Jan. 1 to Mar. 31	87.50
5	Buffalo Board of Trade	Office rent, Buffalo, N. Y., Jan. 1, to Mar. 31	142.06
5	F. E. Warren	Office rent, Cheyenne, Wyo., Jan. 1 to Mar. 31	91.90
5	John H. Clune	Office rent, Cheboygan, Mich., Jan. 1 to Mar. 31	49.50
5	Geo. French	Office rent, Corpus Christi, Tex., Jan. 1 to Mar. 31	86.37
5	E. F. Hallack	Office rent, Denver, Colo., Jan. 1 to Mar. 31	150.00
5	C. M. Beeson	Office rent, Dodge City, Kans., Jan. 1 to Mar. 31	97.91
5	American Exchange Bank	Office rent, Duluth, Minn., Jan. 1 to Mar. 31	114.47
5	Fresno Loan and Savings Bank	Office rent, Fresno, Cal., Jan. 1 to Mar. 31	100.00
5	Homer W. Styron	Office rent, Hatteras, N. C., Jan. 1 to Mar. 31	38.62
5	Charles E. Bryant, receiver for Alliance Building	Office rent, Huron, S. Dak., Jan. 1 to Mar. 31	78.25
5	Abbie S. Ingalls	Office rent, Indianapolis, Ind., Jan. 1 to Mar. 31	83.83
5	R. McLaughlin	Office rent, Jacksonville, Fla., Jan. 1 to Mar. 31	78.04
5	The Kearney Opera House Co.	Office rent, Kearney, Nebr., Jan. 1 to Mar. 31	75.00
5	Matt Borland	Office rent, Lander, Wyo., Jan. 1 to Mar. 31	90.00
5	Walker & Hall	Office rent, Meridian, Miss., Jan. 1 to Mar. 31	70.00

Expenditures Department of Agriculture for fiscal year ending June 30, 1893—Cont'd.

## WEATHER BUREAU—GENERAL EXPENSES—Continued.

Date.	Name.	Nature of payment.	Total.
1893.			
Apr. 5	L. N. Heil.	Office rent, Montrose, Colo., Jan. 1 to Mar. 31.	\$98.00
5	Puget Sound Coöperative Colony, by J. E. Krueger, secretary.	Office rent, Port Angeles, Wash., Jan. 1 to Mar. 31.	59.00
5	Wm. Crawford	Office rent, Pysht, Wash., Jan. 1 to Mar. 31.	30.00
5	Thomas Sweeney	Office rent, Rapid City, S. Dak., Jan. 1 to Mar. 31.	100.76
5	D. W. Gedney, treasurer Cone & Kimball Co.	Office rent, Red Bluff, Cal., Jan. 1 to Mar. 31.	100.99
5	W. H. Wood & Co.	Office rent, Sacramento, Cal., Jan. 1 to Mar. 31.	75.00
5	L. G. Nesmith	Office rent, San Diego, Cal., Jan. 1 to Mar. 31.	120.00
5	H. H. Taylor, agent Mills Building.	Office rent, San Francisco, Cal., Jan. 1 to Mar. 31.	300.00
5	Chamber Commerce Building	Office rent, St. Paul, Minn., Jan. 1 to Mar. 31.	75.21
5	J. C. De Lany	Office rent, Fort Stanton, N. Mex., Jan. 1 to Mar. 31.	120.00
5	The First National Bank	Office rent, Sault Ste. Marie, Mich., Jan. 1 to Mar. 31.	85.75
5	E. H. Jamieson	Office rent, Spokane, Wash., Jan. 1 to Mar. 31.	64.20
5	The Columbian Building	Office rent, Topeka, Kans., Jan. 1 to Mar. 31.	87.50
5	A. P. Eagleton	Office rent, Vineyard Haven, Mass., Jan. 1 to Mar. 31.	100.00
5	Paine Brothers	Office rent, Wallawalla, Wash., Jan. 1 to Mar. 31.	73.95
5	P. Leavago, county treasurer	Office rent, Winnemucca, Nev., Jan. 1 to Mar. 31.	67.00
5	The Sedgwick Building Investment Co.	Office rent, Wichita, Kans., Jan. 1 to Mar. 31.	90.7
5	William E. Hook, jr.	Transportation, Mar. 17.	10.00
5	J. A. Miller	Office chair	6.00
5	A. O. Harvey	Repairing instrument shelter	1.00
5	R. H. McAlpine	Soldering roof, etc.	1.25
5	Oregon Telephone and Telegraph Co.	Rent of telephone, Jan. 1 to Mar. 31.	22.50
5	C. F. Gregor	Services as cleaner, March	5.00
5	New York and Pennsylvania Telephone and Telegraph Co.	Telephone service, Jan. 1 to Mar. 31	6.00
5	The Pennsylvania Telephone Co.	Rent of telephone, Jan. 1 to Mar. 31	21.00
5	Portland Trust Co., of Oregon	Office rent, Portland, Oregon, Jan. 1 to Mar. 31	150.00
5	Paul Wilson	Office rent, Pueblo, Colo., Jan. 1 to Mar. 31	84.00
5	Alamo Fire Insurance Co.	Office rent, San Antonio, Tex., Jan. 1 to Mar. 31	75.00
5	D. S. Hutchinson	Office rent, Titusville, Fla., Jan. 1 to Mar. 31	85.74
6	J. C. Hayden	Traveling expenses, February	10.50
6	A. F. Kenzler	Washing towels, etc., Jan. 1 to Mar. 31	5.50
6	James Brechemin	Lettering frames, etc.	16.10
6	R. S. Mauger	Traveling expenses, March	6.15
6	Henry R. Patrick	do	6.75
6	Klune & Floberg	Repairing clock	2.50
6	Troy Steam Laundry	Washing towels, Jan. 1 to Mar. 31	1.50
6	T. P. Kee	Painting river gauge	3.60
6	Geo. M. Chappel	Expenses, March	46.50
6	P. F. Lyons	do	46.50
6	Frank Bianchi	Services as cleaner, Jan. 1 to Mar. 31	9.00
6	Pay roll, Boston, Mass., subscription.	Salaries, Jan. 1 to Mar. 31	432.75
6	Pay roll, New Haven, Conn	do	76.50
6	Pay roll, Savannah, Ga	do	66.00
8	M. G. Copeland & Co.	Signal flags	765.50
8	Andrew Renz	Sharpening knives	3.00
8	J. H. Chesley & Co.	Washbowls	1.80
8	Geo. W. Knox Express	Drayage	5.83
8	W. E. Nickerson	Boat hire	5.00
8	M. Edwards	do	4.00
8	Baltimore and Ohio R. R. Co.	Transportation, O. T. Brown, Feb. 17	12.75
8	P. McDonough	Traveling expenses, March	4.90
8	Southern Bell Telephone and Telegraph Co.	Rent of telephone, Jan. 1 to Mar. 31	15.00
8	do	do	15.00
8	The Central District and Printing Telegraph Co.	do	12.50
8	The New England Telephone Co.	do	31.25

*Expenditures Department of Agriculture for fiscal year ending June 30, 1893—Cont'd.*

WEATHER BUREAU—GENERAL EXPENSES—Continued.

Date.	Name.	Nature of payment.	Total.
1893.			
Apr. 8	Southern Bell Telephone and Telegraph Co.	Telephone service, Jan. 1 to Mar. 31 .....	\$15.00
8	Illinois Central R. R. ....	Transportation, R. J. Hyatt <i>et al.</i> , Feb. 1 .....	25.14
8	Chicago Telephone Co. ....	Rent of telephone, Jan. 1 to Mar. 31 .....	31.25
8	Sunset Telephone and Telegraph Co.	.....do.....	15.00
8	East Tennessee Telephone Co. ....	Telephone service, Jan. 1 to Mar. 31 .....	15.00
8	City and Suburban Telegraph Association.	.....do.....	25.00
8	Southern Bell Telephone and Telegraph Co.	.....do.....	16.00
8	N. B. Conger .....	Traveling expenses, March .....	9.25
8	William H. Cardew .....	Services, Jan. 1 to Mar. 31 .....	22.50
10	American Mining and Milling Co.	Quartz sand .....	12.75
10	Northern Central Rwy. Co. ....	Freight charges, Feb. 20 .....	3.84
10	James A. Barwick .....	Traveling expenses, March .....	34.10
10	Pennsylvania R. R. Co. ....	Freight charges, Nov. 16 .....	8.85
10	.....do.....	Freight charges, Sept. 12 .....	.70
10	Pacific Coast Steamship Co. ....	Freight charges, Oct. 3 .....	.65
10	Baltimore and Ohio R. R. Co. ....	Freight charges, Dec. 20 .....	2.35
10	Ohio and Mississippi Rwy. Co. ....	Freight charges, Jan. 31 .....	4.82
10	Vandalia Line .....	Freight charges, Jan. 7 .....	.74
10	Denver and Rio Grande R. R. Co. ....	Freight charges, Nov. 9 .....	1.45
10	Geo. W. Williams .....	Office rent, Charleston, S. C., Jan. 1 to Mar. 31 .....	117.93
10	Real Estate and Law Building Co. ....	Office rent, Atlantic City, N. J., Jan. 1 to Mar. 31 .....	45.49
10	First National Bank of Bismarck, N. Dak. ....	Office rent, Bismarck, N. D., Jan. 1 to Mar. 31 .....	99.00
10	Henry Bolton .....	Office rent, Alpena, Mich., Jan. 1 to Mar. 31 .....	52.84
10	Chicago Auditorium Association.	Office rent, Chicago, Ill., Jan. 1 to Mar. 31 .....	172.57
10	B. S. Williams .....	Office rent, Concordia, Kans., Jan. 1 to Mar. 31 .....	66.00
10	C. R. Wheeler .....	Office rent, Columbus, Ohio, Jan. 1 to Mar. 31 .....	83.32
10	Margaret Parmentier .....	Office rent, Green Bay, Wis., Jan. 1 to Mar. 31 .....	75.00
10	Broadwater & Pepin .....	Office rent, Havre, Mont., Jan. 1 to Mar. 31 .....	90.00
10	Catherine Wilson .....	Office rent, Los Angeles, Cal., Jan. 1 to Mar. 31 .....	104.82
10	J. G. Payne, attorney, Law Building.	Office rent, Lynchburg, Va., Jan. 1 to Mar. 31 .....	67.50
10	Melina Wilcke .....	Office rent, Manistee, Mich., Jan. 1 to Mar. 31 .....	56.25
10	F. M. Brown & Co. ....	Office rent, New Haven, Conn., Jan. 1 to Mar. 31 .....	100.00
10	R. S. Dodson .....	Office rent, Norfolk, Va., Jan. 1 to Mar. 31 .....	131.25
10	H. Overholser .....	Office rent, Oklahoma City, Okla., Jan. 1 to Mar. 31 .....	101.75
10	Joseph Chilberg .....	Office rent, Olympia, Wash., Jan. 1 to Mar. 31 .....	26.50
10	S. Marks & Co. ....	Office rent, Roseburg, Oregon, Jan. 1 to Mar. 31 .....	75.50
10	Savannah Board of Trade .....	Office rent, Savannah, Ga., Jan. 1 to Mar. 31 .....	78.25
10	E. A. Clarke & Co. ....	Office rent, Tampa, Fla., Jan. 1 to Mar. 31 .....	77.82
11	F. C. Schneider .....	Repairing clock .....	3.50
11	Chicago, Milwaukee and St. Paul Rwy. Co. ....	Transportation, C. F. Cross, Jan. 6 .....	12.55
11	E. B. Dunn .....	Expressage, etc. ....	3.70
11	.....do.....	Hauling .....	1.00
10	Kate E. Reynolds .....	Services as cleaner, Jan. 1 to Mar. 31 .....	15.00
10	Thos. Robinson .....	Services for March .....	25.00
10	City Gaslight Co. ....	Electric lights, Jan. 1 to Mar. 31 .....	6.00
10	Miles Jackson .....	Services as cleaner, March .....	5.00
10	Emma Ling .....	.....do.....	5.00
10	Atlantic Telephone Exchange .....	Rent of telephone, Jan. 1 to Mar. 31 .....	17.00
10	E. C. Baird .....	Marking river gauge, etc. ....	15.00
10	W. T. Mooney .....	Constructing river gauge .....	49.00
10	Amasa S. Dyer .....	Services, Jan. 1 to Mar. 31 .....	30.00
10	M. F. Dunn & Bro. ....	Binding maps .....	6.00
10	J. A. Applebaugh .....	Services, March .....	36.00
10	J. M. Gallagher .....	Services, Jan. 1 to Mar. 31 .....	15.00
10	Pay roll, Narragansett Pier (R. I.) substation.	Salaries, Jan. 1 to Mar. 31 .....	60.00
10	First National Bank, Moorhead, Minn.	Office rent, Moorhead, Minn., Jan. 1 to Mar. 31 .....	66.31

Expenditures Department of Agriculture for fiscal year ending June 30, 1893—Cont'd.

## WEATHER BUREAU—GENERAL EXPENSES—Continued.

Date.	Name.	Nature of payment.	Total.
1893.			
Apr. 10	Riley Watson	Office rent, Valentine, Nebr., Jan. 1 to Mar. 31.	\$103.53
10	A. Schneider	Office rent, Fort Buford, N. Dak., Jan. 1 to Mar. 31.	45.00
11	H. H. Buhne	Office rent, Eureka, Cal., Jan. 1 to Mar. 31.	72.41
11	W. L. R. A. & E. H. Andres	Office rent, Grand Haven, Mich., Jan. 1 to Mar. 31.	59.32
11	S. A. Raymond, agent	Office rent, Cleveland, Ohio, Jan. 1 to Mar. 31.	175.00
11	W. P. Wilson	Services, Jan. 1 to Mar. 31.	150.00
11	Cotton Exchange Building Co.	Office rent, Memphis, Tenn., Jan. 1 to Mar. 31.	120.00
11	M. E. Conway	Office rent, Narragansett Pier, R. I., Jan. 1 to Mar. 31.	37.74
11	James Baker	Office rent, Springfield, Mo., Jan. 1 to Mar. 31.	68.75
11	John C. Parker	Paper.	90.61
11	J. W. Boteler & Son	Pitchers.	16.50
11	Pacific Postal Telegraph Cable.	Telegraphing, Sept. 1 to Oct. 31.	42.10
11	New York, New Haven and Hudson River R. R. Co.	Freight charges, Feb. 20.	2.67
11	Chicago, Milwaukee and St. Paul Rwy. Co.	Freight charges, Sept. 8.	32.37
11	Baltimore and Ohio R. R. Co.	Freight charges, Oct. 4.	33.54
11	Atchison, Topeka and Santa Fe R. R.	Freight charges, Nov. 9.	2.88
12	Chicago, Burlington and Quincy R. R. Co.	Transportation, G. W. Pancoast, Jan. 24.	12.51
12	The Edison Mutual Telegraph Co.	Transmitting messages, February.	16.02
12	George E. Franklin	Expenses, Jan. 2 to Mar. 31.	3.25
12	J. W. Branan	Services, Jan. 1 to Mar. 31.	15.00
12	S. S. Bassler	Repairing river gauge.	3.25
12	S. L. Dosher	Expressage.	2.00
12	Jennie Pritchett	Services as cleaner, March.	3.00
12	William H. H. Smith	Livery hire.	4.00
12	William H. Barrett	Repairing United States telegraph line.	6.00
12	Abin Hull	do	6.00
12	Thos. Cleary	Services as cleaner, Jan. 1 to Mar. 31.	9.00
12	A. H. Webb	Services, Jan. 1 to Mar. 31.	24.00
12	Pay roll, Harrisburg, Pa., sub-station.	Salaries, Jan. 1 to Mar. 31.	105.00
12	Pay roll, Cairo, Ill., substation.	do	305.60
12	Pay roll, Shreveport, La., substation.	do	100.25
12	James Downey	Services as cleaner, March.	3.00
12	Hudson River Telegraph Co.	Transmitting messages, Jan. 1 to Mar. 31.	15.00
12	The Central District and Printing Telegraph Co.	do	15.55
12	H. M. Knowles	Livery hire.	4.00
12	The Cleveland Telephone Co.	Rent of telephone, Jan. 1 to Mar. 31.	18.00
12	Joseph Evins	Services, Jan. 1 to Mar. 31.	22.50
12	The Erie Telegraph and Telephone Co.	Telephone service, Jan. 1 to Mar. 31.	12.00
12	James Higgins	Services as cleaner, Jan. 1 to Mar. 31.	15.00
12	Memphis Light and Power Co.	Electric lights, March.	6.51
12	S. C. Toot & Co.	Binding maps.	6.00
12	Old Colony R. R. Co.	Freight charges, Nov. 15.	0.44
12	Southern New England Telephone Co.	Telephone service, Jan. 25 to Mar. 31.	11.13
12	M. G. Copeland & Co.	Flags.	279.00
13	Old Colony R. R. Co.	Transportation, E. L. Bugbee, Feb. 22.	9.85
13	J. E. A. Harris	Services, Jan. 1 to Mar. 31.	15.75
13	W. H. Renear	Repairing United States Telegraph line.	16.60
13	Charles M. rrow	Services, Mar. 21, 22, 23.	3.75
13	George Chambers	do	4.00
13	J. H. King	do	4.00
13	Delaware and Atlantic Telegraph and Telephone Co.	Rent of telephone, Jan. 1 to Mar. 31.	12.00
13	Great Southern Telephone and Telegraph Co.	Exchange service, Oct. 1 to Dec. 31.	25.00
13	Great Southern Telephone and Telegraph Co.	Telephone service, Jan. 1 to Mar. 31.	15.00
13	Philadelphia, Reading and Pottsville Telegraph Co.	Transmitting messages, March.	6.42
13	M. Cotter	Livery hire, Jan. 1 to Mar. 31.	31.25
13	Edward Drinkwater	Labor and material.	73.00
13	do	Services, Mar. 16, 17, 18.	7.50
13	Telephone and Telegraph Construction Co.	Telephone service, Jan. 1 to Mar. 31.	10.00

*Expenditures Department of Agriculture for fiscal year ending June 30, 1893—Cont'd*

WEATHER BUREAU—GENERAL EXPENSES—Continued.

Date.	Name.	Nature of payment.	Total.
1893.			
Apr. 13	Pay roll, Mobile, Ala., substation.	Salaries, Jan. 1 to Mar. 31 .....	\$81.00
13	Richard Titus .....	Services as cleaner, March .....	4.00
13	Pay roll, Charleston, S. C., substation.	Salaries, Jan. 1 to Mar. 31 .....	195.00
13	Pay roll, St. Paul, Minn., substation.	..... do .....	45.00
13	Pay roll, New Orleans, La., substation.	..... do .....	172.50
13	Pay roll, Chattanooga, Tenn., substation.	..... do .....	207.90
13	Pay roll, Memphis, Tenn., substation.	..... do .....	94.50
13	Louis Dorman .....	Services as janitor, Jan. 1 to Mar. 31 .....	4.50
13	J. C. Morrell .....	Services, March .....	20.00
13	C. E. Reed .....	Desk room, Jan. 1 to Mar. 31 .....	6.00
13	E. L. Douglas .....	Traveling expenses, February and March .....	8.75
13	Staples & Pelan .....	Office rent, Dubuque, Iowa, Jan. 1 to Mar. 31 .....	157.12
13	John L. Mitchell .....	Office rent, Milwaukee, Wis., Jan. 1 to Mar. 31 .....	163.75
13	Weakley & Shields, agents Vanderbilt University.	Office rent, Nashville, Tenn., Jan. 1 to Mar. 31 .....	112.50
13	Hanna S. Simmons .....	Office rent, Red Wing, Minn., Jan. 1 to Mar. 31 .....	70.00
13	L. N. Jesunofsky .....	Traveling expenses, April 5 .....	3.95
13	E. E. Howes .....	Repairing United States Telegraph line .....	4.50
13	Norfolk and Washington (D. C.) Steamboat Co.	Transportation. E. L. Bugbee, Feb. 28 .....	7.50
13	Andrew B. Graham .....	Engraving .....	20.00
14	Pennsylvania Co.	Transportation, H. C. Frankenfield, Dec. 27 .....	17.50
14	Northern Pacific R. R. Co.	Transportation, B. S. Pague <i>et al.</i> , Feb. 4 .....	14.00
14	Tidewater Telephone Co.	Transmitting messages, Oct. 1 to Nov. 30 .....	4.20
14	McFadden Co.	Hardware, etc. ....	170.25
14	Pacific Club .....	Office rent, Nantucket, Mass., Jan. 1 to Mar. 31 .....	72.50
14	W. M. Edmondson .....	Repairs to rain gauge .....	3.65
14	Campbell & Gregg .....	Towel supply, Jan. 1 to Mar. 31 .....	3.00
14	Stark Bros. Co.	Smyrna rugs .....	7.50
14	James Evans .....	Services as cleaner, Jan. 1 to Mar. 31 .....	9.00
14	O. H. Willis .....	Furnishing water, Jan. 1 to Mar. 31 .....	12.00
14	Samuel de Corse .....	Services as cleaner, March .....	3.75
14	Robert Sherrard .....	..... do .....	3.00
14	T. B. Catron .....	Office rent, Santa Fe, N. Mex., March .....	35.00
14	Vernon H. Harris .....	Office rent, Micco, Fla., Jan. 1 to Mar. 31 .....	16.25
14	J. B. Grady .....	Office rent, Eastport, Me., Jan. 1 to Mar. 31 .....	105.94
14	Albert Marty .....	Office rent, Kansas City, Kans., Jan. 1 to Mar. 31 .....	169.49
14	Daniel Hoesli .....	Washing towels, Jan. 1 to Mar. 31 .....	5.25
14	Willie Judkins .....	Services as cleaner, Jan. 1 to Mar. 31 .....	9.75
14	Lorenzo Silva .....	Services as cleaner, March .....	5.00
14	Pascual Moreuo .....	Services as cleaner, Jan. 1 to Mar. 31 .....	6.00
14	L. T. Phillips .....	Repairing river gauge .....	5.00
14	J. M. Sherier .....	Traveling expenses, Apr. 3 .....	2.00
14	Anna L. Bean .....	Services, Jan. 1 to Mar. 31 .....	9.00
14	Jno. M. Klein .....	Crating .....	8.75
14	Missouri and Kansas Telephone Co.	Telephone service, Jan. 1 to Mar. 31 .....	12.00
14	Delaware, Lackawanna and Western R. R. Co.	Freight charges, Oct. 15 .....	5.07
14	Narragansett Pier R. R. Co.	Freight charges, Nov. 18 .....	.82
14	Norfolk and Southern R. R. Co.	Freight charges, Nov. 23 .....	.50
14	Nashville, Chattanooga and St. Louis Rwy. Co.	Freight charges, Nov. 9 .....	6.58
14	Nebraska Telephone Co.	Rent of telephone, Jan. 1 to Mar. 31 .....	15.00
14	James McKean .....	Labor and material .....	15.00
14	Missouri and Kansas Telephone Co.	Telephone service, Jan. 1 to Mar. 31 .....	18.00
14	F. L. Jackson, agent .....	Officerent, Yankton, S. Dak., Jan. 1 to Mar. 31 .....	74.25
14	Sunset Telephone and Telegraph Co.	Rent of telephone, Jan. 1 to Mar. 31 .....	12.00
14	Great Southern Telephone and Telegraph Co.	Rent of telephone, Jan. 1 to Mar. 31 .....	15.00
14	George S. Waite .....	Office rent, Key West, Fla., Jan. 1 to Mar. 31 .....	103.86
14	Pay roll, Vicksburg, Miss., substation.	Salaries, Jan. 1 to Mar. 31 .....	100.50
14	Pay roll, Raleigh, N. C., substation.	..... do .....	117.00
14	R. H. Gegax .....	Repairing, painting, etc. ....	10.00

Expenditures Department of Agriculture for fiscal year ending June 30, 1893—Cont'd.

## WEATHER BUREAU—GENERAL EXPENSES—Continued.

Date.	Name.	Nature of payment.	Total.
1893.			
Apr. 14	L. F. Bassett.....	Establish river gauge.....	\$10.00
14	M. W. Herron.....	Painting gauge, etc.....	25.00
14	Masonic Temple Association.....	Office rent, Davenport, Iowa, Jan. 1 to Mar. 31.....	75.00
14	Salt Lake Board of Trade.....	Office rent, Salt Lake City, Utah, Jan. 1 to Mar. 31.....	137.50
14	Amarillo Improvement Co.....	Office rent, Amarillo, Tex., Jan. 1 to Mar. 31.....	66.75
14	B. A. Jeune.....	Office rent, Idaho Falls, Idaho, Jan. 1 to Mar. 31.....	30.00
14	Davidson & Joseph.....	Office rent, Montgomery, Ala., Jan. 1 to Mar. 31.....	56.25
14	J. H. Mills & Co.....	Printing supplies.....	1.50
14	Nordhoff & Knabe.....	Repairing thermograph.....	16.00
18	Buckner Southworth.....	Constructing river gauge.....	45.00
18	Morris Levistein.....	Marking river gauge.....	25.00
18	Chas. M. Stoever.....	Stationery.....	239.00
18	Jno. M. Klein.....	Cartage, etc.....	3.00
18	J. C. Entwistle.....	Cotton batting.....	20.00
18	Andrew B. Graham.....	Electrototype.....	1.50
18	F. H. Connolly.....	Flour.....	1.85
18	W. T. Blythe.....	Gas, Dec 1 to Mar. 31.....	12.90
18	Goldstein, Rose & Co.....	Coal oil.....	1.10
18	P. Connor.....	Street-car tickets.....	2.70
18	Montgomery Light Co.....	Gas, Jan. 1 to Mar. 31.....	5.20
18	Astoria Gas Light Co.....	do.....	5.04
18	Crete Lumber Co.....	Coal.....	28.75
18	Lee Fish.....	Services, Jan. 1 to Mar. 31.....	30.00
18	Colorado College.....	Office rent, Colorado Springs, Colo., Jan. 1 to Mar. 31.....	65.25
18	Joseph Lawrence.....	Services, Jan. 1 to Mar. 31.....	21.00
18	John Fitzgerald.....	Traveling expenses, March.....	4.00
18	Tyler Desk C.....	Table.....	9.00
18	Pythian Land and Building Association.....	Office rent, Astoria, Oregon, Jan. 1 to Mar. 31.....	75.25
18	Lorenzo Littlefield.....	Office rent, Block Island, R. I., Jan. 1 to Mar. 31.....	42.50
18	C. H. Burdick.....	Halyards.....	1.50
18	Stock Growers' National Bank.....	Office rent, Miles City, Mont., Jan. 1 to Mar. 31.....	54.00
18	R. J. Hyatt.....	Hauling.....	1.85
18	L. M. Pindell.....	Binding maps, etc.....	22.47
18	J. G. Niemi.....	Repairing clock.....	1.50
18	Fred. Strauss & Co.....	do.....	1.50
18	J. B. Marbury.....	Hauling, etc.....	7.75
18	Lowman and Hanford S. & P. Co.....	Mucilage and ink.....	3.25
18	G. H. Wilson.....	Drayage, etc.....	1.40
18	J. R. Clinton.....	Services, Feb. 2 and Mar. 9.....	5.25
18	Amanda B. Atter.....	Cleaning river gauge.....	3.00
18	C. E. Haynes.....	Services as cleaner, Jan. 1 to Mar. 31.....	10.00
18	Challis Hayman.....	do.....	7.50
18	Ben. C. Nichols.....	Repairing clock.....	1.50
18	Wisconsin Telephone Co.....	Rent of telephone, Jan. 1 to Mar. 31.....	12.00
18	The Seattle Transfer Co.....	Hauling.....	1.00
18	Lenoir Blowing Rock Telephone Co.....	Transmitting messages, Jan. 1 to Mar. 31.....	9.40
18	Rising Sun Telegraph Line.....	do.....	5.60
18	The Kingston Telegraph Co.....	Telegraphing, March.....	5.00
18	Minneapolis, St. Paul and Sault Ste. Marie Rwy. Co.....	do.....	25.93
18	Munfordville Short Line Telegraph.....	Telegraphing, Oct. 1 to Mar. 31.....	6.10
18	Ohio Valley Telephone Co.....	Telegraphing, Jan. 1 to Mar. 31.....	18.00
18	Wisconsin Telephone Co.....	Rent of telephone, Jan. 1 to Mar. 31.....	16.19
18	International Ocean Telegraph Co.....	Transmitting cablegrams, Aug. 1 to Oct. 6.....	12.12
18	Pay roll, Lacrosse, Wis., substation.....	Salaries, Jan. 1 to Mar. 31.....	18.00
18	Pay roll, Cincinnati, Ohio, substation.....	do.....	413.10
18	Pay roll, Kansas City, Mo., substation.....	do.....	27.50
18	Pay roll, Pittsburg, Pa., substation.....	do.....	455.10
18	Pay roll, Portland, Oregon, substation.....	do.....	75.00
18	Portland Steam Packet Co.....	Freight charges, Dec. 28.....	1.02
18	Pennsylvania R. R. Co.....	Freight charges, Jan. 31.....	4.10
19	Wilmington and Weldon R. R. Co.....	Transportation, A. J. Davis, Feb. 23.....	41.55
19	Thos. Crawford.....	Traveling expenses, April.....	5.25

*Expenditures Department of Agriculture for fiscal year ending June 30, 1893—Cont'd.*

WEATHER BUREAU—GENERAL EXPENSES—Continued.

Date.	Name.	Nature of payment.	Total.
1893.			
Apr. 19	Cumberland Telephone and Telegraph Co.	Transmitting messages, Jan. 1 to Mar. 31.	\$66.40
19	Pay roll, Augusta, Ga., substation.	Salaries, Jan. 1 to Mar. 31.....	81.00
19	Pay roll, Montgomery, Ala., substation.	.....do.....	250.45
19	Pay roll, Louisville, Ky., substation.	.....do.....	27.00
19	Courier-Journal Co.	Office rent, Louisville, Ky., Jan. 1 to Mar. 31	69.00
19	P. F. Lyons	Traveling expenses, April.....	6.10
19	Ernest Betz	Zinc.....	4.00
19	J. B. Chamberlain	Chemicals.....	1.00
20	G. W. White	Labor and material.....	24.00
20	Pay roll, St. Louis, Mo., substation.	Salaries, Jan. 1 to Mar. 31.....	287.00
20	Bryant, Luce & McEachin	Office rent, Fort Smith, Ark., Jan. 1 to Mar. 31.	90.41
20	Montana National Bank	Office rent, Helena, Mont., Jan. 1 to Mar. 31.	125.00
20	National Bank of Commerce	Office rent, Pierre, S. Dak., Jan. 1 to Mar. 31	112.00
20	First National Bank	Office rent, Portland, Me., Jan. 1 to Mar. 31	126.00
20	Adams Express Co.	Expressage, February and March.....	18.60
21	Telephone and Telegraph Construction Co.	Rent of telephone, Jan. 1 to Mar. 31.....	12.00
21	Pay roll, Lynchburg, Va., substation.	Salaries Jan. 1 to Mar. 31.....	45.00
21	Southern Bell Telephone and Telegraph Co.	Rent of telephone, Jan. 1 to Mar. 21.....	15.00
21	Dickinson Type Foundry	Printers' supplies.....	2.00
21	L. Duernberger	Office chairs.....	4.00
21	W. S. Harrison	Telephone service, Jan. 1 to Mar. 31.....	9.75
21	E. Biondi	Services, Jan. 1 to Mar. 31.....	30.00
21	J. A. Hatfield	.....do.....	30.00
21	K. O. Holmes	Ink.....	.75
21	Lucius M. Sheldon, by Horace M. Stevens, attorney in fact.	Office rent, El Paso, Tex., Jan. 1 to Mar. 31.	84.42
21	Andrew B. Granam	Engraving.....	16.00
22	Yost Writing Machine Co.	Platen.....	2.00
22	Pay roll, Corpus Christi, Tex., substation.	Salaries, Jan. 1 to Mar. 31.....	90.00
22	Pay roll, Fort Smith, Ark., substation	.....do.....	27.00
22	William E. Hook, jr	Transportation to Pikes Peak.....	10.00
22	David James	Services, Jan. 1 to Mar. 31.....	3.00
22	U. G. Purssell	Hauling.....	1.25
25	East Tennessee, Virginia and Georgia Rwy. Co.	Transportation, N. B. Conger, Mar. 23.....	15.20
25	Chicago, Burlington and Northern R. R. Co.	Transportation, J. Fitzgerald, Mar. 2.....	21.50
25	Frank Perry	Telephoning, Jan. 1 to Mar. 31.....	14.50
25	New England Telephone and Telegraph Co.	Rent of telephone, Jan. 1 to Mar. 31.....	12.50
25	Charles Shea	Services, Jan. 1 to Mar. 31.....	30.00
25	Charles Eneu Johnson & Co	Printers' ink.....	28.13
25	D. Lavin	Repairing United States Telegraph line.....	11.25
25	Arthur McNally	.....do.....	17.50
25	D. C. Hibbard	.....do.....	16.50
25	Pay roll, Atlanta, Ga., substation.	Salaries, Jan. 1 to Mar. 31.....	238.28
25	G. B. McCoy	Transmitting messages, March.....	6.00
25	Chas. A. Kinaman	Services, Jan. 1 to Mar. 31.....	21.50
25	Galveston Cotton Exchange	Office rent, Galveston, Tex., Jan. 1 to Mar. 31.	78.25
22	Southwestern Telegraph and Telephone Co.	Telephone service, Jan. 1 to Mar. 31.....	12.00
25	Brush Electric Light and Power Co.	Electric lights, Jan. 1 to Mar. 31.....	13.75
25	J. H. Bickford	Services, Jan. 1 to Mar. 31.....	15.00
25	F. Bader	Repairs to wind vane.....	1.00
25	S. Grayson	Services, Jan. 1 to Mar. 31.....	22.50
25	Standard Engraving Co.	Engraving.....	15.00
25	Alexander Pavarim & Son.	Rain gauge.....	84.50
26	G. P. Wilcox	Expenses, February.....	9.02
26	New England Telephone and Telegraph Co.	Telephone service, Jan. 1 to Mar. 31.....	12.50
26	Wyoming Midland Telegraph Co.	Transmitting messages, March.....	13.98
26	Pay roll, Sacramento, Cal., substation.	Salaries, March.....	18.25
26	G. T. W. Wells	Repairing United States Telegraph line.....	6.00
26	Thos. Duncan	Services Jan. 1 to Mar. 31.....	24.00

Expenditures Department of Agriculture for fiscal year ending June 30, 1893—Cont'd.

## WEATHER BUREAU—GENERAL EXPENSES—Continued.

Date.	Name.	Nature of payment.	Total.
1893.			
Apr. 26	F. J. Hart	Repairing United States Telegraph line	\$2.50
26	Julien P. Friez	Changing anemometers, wrenches	10.00
26	A. F. Warren	Services, Mar. 24	3.50
26	F. M. King	Labor and material	6.00
26	Barney Truckey	Lettering door, etc	3.00
29	Thomaston and Barnesville Telegraph line.	Telegraphing, Feb. 1 to Mar. 31	4.40
29	Chicago, Burlington and Northern R. R.	Telegraphing, March	5.66
29	Clarksburg and Weston Telegraph	do	16.60
29	Mooshead Lake Telegraph Co.	Telegraphing, Dec. 1 to Mar. 31	8.50
29	Geo. M. Chappel	Traveling expenses, April	10.10
29	E. A. Brown	do	6.00
29	A. J. Davis	Benzine, etc	1.20
29	Pennsylvania Co.	Transportation, W. L. Moore, Jan. 1	24.50
29	C. L. Simons	Moving instrument shelter	19.75
30	W. J. Naylor <i>et al.</i>	Printing pay roll, April	1,968.77
30	Geo. F. Flint <i>et al.</i>	Climatology pay roll, April	494.48
30	William H. Cardew	Services, Apr. 1 to 15	3.75
May 1	Milton Whitney	Services for April	197.80
1	Hannibal and St. Joseph R. R.	Freight charges, Sept. 17	2.46
1	do	Freight charges, Nov. 9	2.23
1	Toledo, Ann Arbor and Northern Michigan Rwy. Co.	Transportation, C. F. Marvin, Aug. 26	14.90
1	The Southern Bell Telephone and Telegraph Co.	Telegraphing, Jan. 1 to Mar. 31	15.00
1	Pay roll, Nashville, Tenn., substation.	Salaries, Jan. 1 to Mar. 31	63.00
1	Easton & Rupp	Envelopes	14.25
1	Andrew B. Graham	Engraving	30.00
1	F. A. Schneider	Hoop iron	4.44
1	E. L. Bugbee	Traveling expenses, April	27.75
2	Chas. Cooper & Co	Ammonia	5.50
2	Henry J. Green	Thermometers	1,325.00
2	J. H. Fall & Co	Lead	3.80
2	Schneider Bros	Repairing anemometers	300.00
2	C. T. Fardwell	Gas-tubing	1.50
2	W. S. Gosnell	Services as cleaner, April	5.00
2	do	Repairing elevator, etc	1.25
2	John Gordon	Oil	3.00
2	Smith & Swainson	Rent of desk room, Cleveland, Ohio, Jan. 1 to Apr. 30	40.00
2	John M. Temple	Oil can	1.60
2	Pacific Carpet Co	Carpet	25.00
2	Charles Gregor	Services as cleaner, April	5.00
2	W. M. Case	Services, April	40.00
2	Geo. Ryneal, Jr.	Box of glass	7.05
4	New York Central and Hudson River R. R. Co.	Freight charges, Feb. 20	2.49
4	do	Freight charges, Jan. 31	1.24
4	New England Telephone and Telegraph Co.	Telegraphing, March	1.80
4	The Pittsboro Telegraph Line	Telegraphing, Jan. 1 to Mar. 31	9.40
4	The Edison Mutual Telegraph Co.	Telegraphing, March	16.35
4	The Great Northwestern Telegraph Co.	do	126.20
4	Lake Shore and Michigan Southern Rwy. Co.	Transportation E. A. Brown, Dec. 10	4.50
4	do	Transportation H. R. Patrick Mar. 23	20.87
4	Michigan Central R. R. Co.	Transportation H. C. Frankfield, Mar. 11	5.75
4	Boston and Maine R. R.	Transportation, J. W. Smith, Apr. 17	6.75
4	New York, New Haven and Hartford R. R. Co.	Transportation, J. W. Smith, Jan. 13	5.00
4	Megeath Stationary Co.	Caligraph stand	3.75
4	G. N. Wilson	Traveling expenses, April	8.50
4	R. F. Young	do	3.50
4	T. L. Bridges	do	5.00
4	A. Foster & Son	Cleaning carpet	2.50
4	James B. Malone	Services, Nov. 1 to Mar. 31	5.60
5	Chas. Cooper & Co.	Ammonia	6.00
5	Fred. Z. Gosewisch	Traveling expenses, etc	1.30
5	Enterprise Telegraph Co.	Telegraphing, Jan. 1 to Mar. 31	6.50
5	New York, Philadelphia and Norfolk R. R. Co.	Transportation E. L. Bugbee, Mar. 1	2.00
5	W. R. Smellie	Binding maps	8.00
5	Joseph Chilberg	Office rent, Olympia, Wash., April	26.50
5	Jennie Pritchett	Services as cleaner, April	3.00
5	F. P. Nash	Instrument shelters, etc	240.00

*Expenditures Department of Agriculture for fiscal year ending June 30, 1893—Cont'd.*

WEATHER BUREAU—GENERAL EXPENSES—Continued.

Date.	Name.	Nature of payment.	Total.
1893.			
May 5	Pay roll, Washington, D. C., substation.	Salaries, Jan. 1 to Mar. 31 .....	\$49.50
11	Northern Pacific R. R. Co.	Transportation, S. G. Duffey, Mar. 8 .....	18.48
11	The Bell Telephone Co., of Missouri.	Telephone service, Jan. 1 to Mar. 31 .....	16.25
11	J. N. Applebaugh .....	Services, April .....	36.00
11	W. S. Barnes .....	Labor and material .....	408.50
11	C. H. Burdick .....	do .....	2.99
11	H. C. Bate .....	Traveling expenses, April .....	28.65
11	Iowa Printing Co. ....	Binding maps .....	4.00
11	Neal D. Winslow .....	Benzine .....	1.25
11	George E. Mooers & Co .....	Office desk .....	25.00
11	Henry Seymour, agent for Merritt Wrecking Organization.	Hire of steamer .....	600.00
11	A. W. Swan .....	Repairing flagstaff .....	5.00
11	Flint and Pere Marquette R. R. Co.	Transportation, N. B. Conger, Apr. 17 .....	6.71
11	American Mining and Milling Co. ....	Sand .....	12.75
11	D. B. Cotton .....	Copying records .....	15.00
11	Philadelphia, Reading and Pottsville Telegraph Co.	Transmitting messages in April .....	6.89
11	Chesapeake and Ohio R. R. Co.	Transporting H. C. Franklinfield, Mar. 6 .....	17.00
11	S. L. Brooks .....	Painting river gauge .....	1.00
11	James Ruane .....	Lettering map, frames, etc. ....	29.89
11	The Missouri Pacific Rwy. Co.	Transporting F. H. Clarke, Mar. 17 .....	2.35
11	Toilet Supply Co .....	Washing towels, April .....	1.50
11	James Downey .....	Services as cleaner in April .....	3.00
11	Detroit, Bay City and Alpena R. R. Co.	Transporting N. B. Conger, Apr. 19 .....	3.15
11	A. B. Crane .....	Drayage, etc. ....	1.50
11	Frank Farish .....	Services, Apr. 26 to 29 .....	12.80
11	Miles Jackson .....	Services as cleaner, April .....	5.00
11	Courier-Journal Co .....	Office rent, Louisville, Ky., April .....	23.00
11	Valentine Montoya .....	Services as cleaner, April .....	5.00
11	Memphis Light and Power Co.	Electric current, April .....	5.77
11	Robert Sherrard .....	Services as cleaner, April .....	3.00
11	B. A. Jeune .....	Office rent, Idaho Falls, Idaho, April .....	30.00
11	Pay roll Davenport, Iowa, substation.	Salaries, Jan. 1 to Mar. 31 .....	37.02
11	J. H. Barnard .....	Hauling .....	75
11	Emma Ling .....	Services as cleaner, April .....	5.00
11	E. A. Brown .....	Traveling expenses, April .....	1.75
11	Wm. Ballantyne & Sons .....	Books .....	3.90
11	do .....	Paper .....	119.85
11	John C. Parker .....	Manila paper .....	8.75
11	Western Union Telegraph Co.	Transmitting messages, October .....	11,832.53
13	Thos. Robinson .....	Services for April .....	25.00
13	The Gordon Press Works .....	Spring for press .....	1.50
13	Thomas H. Branham .....	Droplight .....	5.00
13	P. McCarthy .....	Headlight oil .....	2.40
13	I. M. Cline .....	Expressage .....	1.50
13	H. J. Cox .....	Hauling, etc. ....	4.25
13	Alexander H. Revell & Co .....	Desk and chair .....	40.00
13	Abin Hull .....	Repairing United States Telegraph line .....	10.00
13	C. M. Sylvia .....	do .....	10.00
13	Lawrence Ayers .....	do .....	10.00
13	Eli & Newman .....	Labor and material .....	15.50
13	The C. L. Smith Mercantile Co.	do .....	4.50
13	Hy Heuchert .....	Transmitting messages, Apr. 17 to May 5 .....	5.75
13	Geo. A. Collins .....	Typewriter stand .....	5.50
13	Western Union Telegraph Co.	Transmitting messages, November .....	11,139.89
13	The Smithsonian Institution .....	Transportation of exchanges .....	11.80
13	F. A. Schneider .....	Photographic plates .....	4.80
13	Andrew Renz .....	Sharpening knives .....	3.00
13	Newman & Son .....	Remodeling caligraph .....	70.00
17	William E. Hook, Jr. ....	Transporting to Pikes Peak .....	10.00
17	South Florida Telegraph Co. ....	Transmitting messages, Dec. 8 to Feb. 15 .....	2.41
17	Richard Titus .....	Services as cleaner, April .....	4.00
17	Missouri and Kansas Telephone Co.	Rent of telephone, Jan. 1 to Mar. 31 .....	21.00
17	Annie A. McGovern .....	Office rent, Keeler, Cal., Jan. 1 to Mar. 31 .....	85.91
17	J. C. Mcrell .....	Services, April .....	20.00
17	John McDonald .....	Labor and material .....	14.00
17	International and Great Northern R. R. Co.	Transporting M. Whitehead, Feb. 7 .....	35.40
17	do .....	Transporting J. M. Sherier, Mar. 12 .....	2.70
7	Geo. C. Hunt .....	Traveling expenses, Mar. 20 .....	2.65

Expenditures Department of Agriculture for fiscal year ending June 30, 1893—Cont'd.

## WEATHER BUREAU—GENERAL EXPENSES—Continued.

Date.	Name.	Nature of payment.	Total.
1893.			
May 17	Duluth, South Shore and Atlantic Rwy. Co.	Transporting P. McDonough, Mar. 28	\$19.22
17	St. Paul and Duluth R. R. Co.	Transporting T. F. Townsend, Sept. 12	4.30
17	H. C. Franklinfield	Expenses, May	3.50
17	Pennsylvania R. R. Co.	Transporting N. B. Conger <i>et al.</i> , Mar. 29	71.63
17	Boston and Albany R. R. Co.	Transporting T. L. Bridges, Apr. 22	22.00
17	Chicago, Burlington and Quincy R. R. Co.	Freight charges, Jan. 7	.92
17	M. F. Dunn & Bro	Binding Weather Journal	1.25
17	Illinois Central R. R. Co.	Transporting H. C. Bate, Apr. 12	4.90
17	Norfolk and Washington (D.C.) Steamboat Co.	Transporting E. L. Bubee, Apr. 3	6.00
19	N. B. Conger	Traveling expenses, April and May	93.10
19	Norfolk and Washington (D.C.) Steamboat Co.	Freight charges, Jan. 21	.26
19	A. B. Crane	Table	2.50
19	Wyoming Midland Telegraph Co.	Transmitting messages, April	13.40
19	J. W. Braid	Repairing cable	4.00
19	Pennsylvania Co.	Transporting H. J. Penrod, Mar. 3	11.00
19	Eli Abbott	Services, April	7.50
23	New York Central and Hudson River R. R. Co.	Transporting N. B. Conger <i>et al.</i> , Mar. 31	17.80
23	Grand Trunk Rwy. Co.	Transporting N. B. Conger, Apr. 14	1.46
23	G. B. McCoy	Telegraphing, April	6.00
23	Louisville and Nashville R. R. Co.	Transporting T. Crawford, Mar. 29	16.66
23	Geo. E. Hunt	Washing towels, etc.	1.60
23	Central Vermont R. R. Co.	Transporting J. W. Smith, Apr. 18	6.20
23	Geo. Meier & Co	Clerk	14.50
23	J. A. Miller	Paint, etc.	8.00
23	J. G. Wagner	Repairing wind vane	18.00
23	Standard Furniture Co.	Table, chairs, etc	81.50
23	Julien P. Friez	Brass supports	75.00
23	Arthur F. Warren	Services, April	8.75
23	L. E. Stone	Horse hire	2.00
23	T. D. Lockwood	Labor and material	12.00
23	Geo. Paquette	Resetting flagstaff	7.00
23	Holmes & Co.	Rubber tubing	4.00
23	Forsburg & Murray	Wind vanes, etc.	130.75
23	Francis Miller	Panes of glass	3.90
23	Western Union Telegraph Co.	Transmitting messages, December	10,515.30
25	Thomaston and Barnes Telegraph line.	Transmitting messages, April	1.70
25	The Edison Mutual Telegraph Co.	do	15.72
25	Clarksburg and Western Telegraph Co.	do	13.40
25	Chicago and West Michigan Rwy.	Transporting N. B. Conger, May 6	3.50
25	Boston and Maine R. R. Co.	Transporting A. McAdie <i>et al.</i> , July 12	2.90
25	Levy, Dreyfus & Co	Barometers, etc	33.50
25	I. M. Cline	Reefing halyards	3.00
25	D. C. Hibbard	Repairing United States Telegraph line	10.00
25	A. Nelson	do	1.25
25	Arthur McNally	do	10.00
25	Robert S. Smith	Expressage	5.00
25	Adams Express Co.	Hauling	74.09
25	John M. Williams	Office expenses, March and April	6.29
26	J. H. Harmon	Recorder of river meter	14.35
26	Chas. W. Pate	Hauling	11.00
26	John Thorn	Labor and material	2.00
26	Mills, Randall & Co.	Handsaw	58.00
26	South Hardware Co., limited	Repairing clock	1.00
26	A. Salzman	Painting river gauge	1.00
26	Chas. Neunham	Window shade, etc	15.00
26	David Jones	Kerosene oil	38.33
26	W. J. Tate	Repairing flagstaff	.80
26	T. C. Torrison	Rags	6.00
26	J. C. Entwistle	Signal flags	8.00
26	M. G. Copeland & Co.	Services, May	765.50
31	Frank Farrish	Printing roll, May	86.40
31	W. J. Naylor <i>et al.</i>	Climatology roll, May	2,038.52
31	Robert L. Packard <i>et al.</i>	Services, May	374.80
June 1	Milton Whitney	Measuring river current	204.40
1	J. B. Marbury	Repairs to rain gauges	22.75
1	W. M. Wilson	Laborer, etc	3.75
1	Benj. R. Stuart	Hauling, etc	3.75
1	James H. Marlette		1.50

Expenditures Department of Agriculture for fiscal year ending June 30, 1893—Cont'd.

## WEATHER BUREAU—GENERAL EXPENSES—Continued.

Date.	Name.	Nature of payment.	Total.
1893.			
June 1	W. M. Case	Services, May	\$40.00
1	Marietta Abbey	Bulletin frames	299.70
1	F. F. Voight	Bulletin frames, etc	26.00
1	Acme Box Co.	Box	2.50
1	Andrew B. Graham	Engraving	5.00
1	J. D. Free, jr	Milliograph frames	51.60
1	New England Telephone and Telegraph Co.	Telegraphing, April	1.60
1	Minnesota, St. Paul and Sault Ste. Marie R. R. Co.	do	27.33
1	Jacksonville and St. John's Bar Telegraph Co.	Telegraphing, Sept. 9 to Apr. 20, 1893	22.74
1	Chicago and Alton R. R. Co.	Transporting H. R. Boynton, Jan. 14	7.50
1	Chicago, Burlington and Northern R. R. Co.	Telegraphing, April	8.86
1	Ohio and Mississippi Rwy. Co.	Freight charges, Feb. 20	23.89
1	Cyrus Ellenberger	Traveling expenses, April	3.00
1	Joseph E. Hopper	Services, May 8 to 19	12.00
1	D. W. Owen	Services, Jan. 21 to Mar. 31	7.26
1	Jos. B. Mameal & Co	Coal oil	1.30
1	J. M. Allmendinger	Repairs to flagstaff	45.00
1	Illinois Central R. R. Co.	Freight charges Oct. 26	2.85
1	L. M. Pindell	Labor, etc	30.70
1	J. H. Bunnell & Co	Hydrometers	38.00
1	Isaac Friedenwald	Map forms	2.00
1	do	do	124.25
1	Henry J. Green	Barometer tubes	40.00
1	S. W. Case	Painting	10.00
1	Standard Engraving Co.	Engraving plates	3.50
1	M. J. Adler	Rubber hose	.90
1	Royce & Marean	Electrical supplies	9.80
2	Chicago, Burlington and Quincy R. R. Co.	Transporting J. W. Byram <i>et al.</i> , Feb. 25	35.74
2	Cincinnati, New Orleans and Texas Pacific Rwy. Co.	Transporting H. C. Bate, Apr. 25	13.35
2	Michigan Central R. R. Co.	Transporting N. B. Conger, Apr. 19	15.35
2	Baltimore and Ohio R. R. Co.	Transporting N. B. Conger, Mar. 11	15.20
2	W. S. Gasnell	Services, May	5.00
2	C. F. Gregor	Services as cleaner, May	5.00
3	J. H. Millis & Co.	Printing supplies	23.50
2	Z. D. Gilman	Sponges	3.00
2	C. B. Fenton & Co.	Milliograph rollers, etc	29.40
3	U. G. Myers	Hauling	2.00
3	U. G. Pursell	do	1.90
3	W. E. Butler	do	.70
3	Indian River Steamboat Co.	Freight charges, Nov. 4	2.04
3	Duluth, South Shore and Atlantic Rwy. Co.	Freight charnes, July 22	5.58
3	Michigan Central R. R. Co.	Freight charges, Nov. 4	6.86
3	Baltimore and Ohio R. R. Co.	Freight charges, Jan. 31	14.44
3	Baltimore and Ohio Northwestern R. R.	Freight charges, Feb. 20	3.63
3	East Tennessee, Virginia and Georgia Rwy. Co.	Freight charges, Apr. 18	3.39
3	Hannibal and St. Joseph R. R.	Freight charges, Nov. 9	8.39
3	St. Joseph and Council Bluffs R. R. Co.	Freight charges, Nov. 28	1.08
3	Chicago, Milwaukee and St. Paul Rwy. Co.	Freight charges, Sept. 10	6.43
3	do	Freight charges, Dec. 23	3.01
3	do	Freight charges, Oct. 24	2.31
3	Hugh Reilly	Benzine	.60
3	Norfolk and Washington (D. C.) Steamboat Co.	Freight charges, Apr. 25	18.29
6	O. C. Hicks	Labor and material	2.50
6	Wm. McConnell & Co.	Matting	3.17
6	Wm. T. Devlan & Co.	Cash box	3.50
6	Kansas City, Memphis and Birmingham R. R. Co.	Freight charges, Oct. 3	5.78
6	Jennie Pritchett	Services as cleaner, May	3.00
6	T. R. Ryan	Traveling expenses, May	11.00
6	Chicago and Northwestern Rwy. Co.	Transporting P. F. Lyons, Apr. 7	21.00
6	Joseph Chilberg	Office rent, Olympia, Wash., May	26.50
6	Wm. H. H. Smith	Repairing United States Telephone line	22.00
6	William Buckley	Laying cable	20.00
6	P. Robinson	Repairing United States Telephone line	10.50
6	Richard Titus	Services as cleaner, May	4.00
6	Miles Jackson	do	5.00
6	Hickler Bros	Labor and material	5.00

Expenditures Department of Agriculture for fiscal year ending June 30, 1893—Cont'd.

## WEATHER BUREAU—GENERAL EXPENSES—Continued.

Date.	Name.	Nature of payment.	Total.
1893.			
June 6	J. N. Applebaugh	Services, May	\$36.00
6	Edw. McSoroley	Cleaning of office	35.00
6	John Edwards	Services as cleaner, May	3.00
6	Pear Laundry Co. (limited)	Washing flags, etc.	3.00
6	Sam C. Wescott	Mucilage & n'l ink	2.80
8	R. M. Abel	Labor and material	3.00
8	The Great Northwestern Telegraph Co.	Telegraphing, April	125.18
8	Thos. Robinson	Services, May	25.00
8	G. M. Allison & Co.	Repairs to typewriter	1.00
8	Geo. Meier & Co.	Transfer paper	6.00
8	Newport News and Mississippi Co.	Freight charges, Feb. 20	5.85
8	Richmond and Danville R. R. Co	Transporting J. H. Harman, Mar. 7	54.15
8	A. V. Hall	Transportation	10.00
8	J. W. Westcott	Reeving halyards	5.00
8	N. B. Conger	Traveling expenses, May	5.10
8	James Downey	Services as cleaner, May	3.00
8	Emma Ling	do	5.00
8	W. Russell	Replacing halyards	1.50
8	J. C. Morrell	Services, May	20.00
8	Peter Duryee & Co.	Water cooler	4.50
8	Valentine Montoya	Services as cleaner, May	5.00
8	P. Connor	Street-car tickets, Apr. 1 to May 31	5.00
8	Standard Engraving Co.	Engraving	4.00
8	Thos. J. Luttrell	Millinette	1.35
10	Lowman & Hanford	Perforated silk	2.00
10	G. E. Moody & Co	Moving office furniture	110.00
10	Robert Sheppard	Services as cleaner, May	3.00
12	S. S. Bossler	River gauging	45.95
12	do	Measuring river current	18.50
12	Joseph E. Hopper	do	6.00
12	Pay-roll, Sacramento, Cal.	Substation salaries, April	37.50
12	Wm. Crossmyer	Repairing barometer case	.50
12	H. B. Cartwright	Broom oil	1.00
12	Henry J. Green	Repairing thermometers	112.85
12	Charles Enew Johnson & Co	Printers' ink	7.50
12	L. M. Pindell	River gauging	18.56
12	Toilet Supply Co.	Washing towels, May	1.50
12	J. Vanderhook	Chair	5.00
12	Geo. Ryneal, Jr.	Students' lamps, etc.	16.86
13	Northern Pacific R. R. Co.	Transporting E. L. Douglas, Feb. 28	13.45
13	Philadelphia Reading and Pottsville Telegraph Co.	Telegraphing, Jan	4.20
13	Indian River Steamboat Co.	Freight charges, May 7	3.82
13	Pennsylvania R. R. Co.	Freight charges, Apr. 18	4.69
13	Hannibal and St. Joseph R. R. Co.	Freight charges, Dec. 14	.82
13	Illinois Central R. R. Co.	Transporting W. M. Fulton, Feb. 13	6.00
13	G. L. Turner	Drayage	1.50
13	J. Rosenbaum	Table	5.00
13	D. P. McCallum	Traveling expenses, May	1.75
13	Memphis Light and Power Co.	Electric current, May	6.68
13	Maurie Joyce	Logotypes	9.00
14	Ohio and Mississippi Rwy.	Freight charges, Mar. 29	3.19
14	Nashville, Chattanooga and St. Louis Rwy.	Transporting H. C. Bate, Apr. 10	6.10
14	Michigan Central R. R. Co.	Freight charges, Dec. 20	6.50
14	E. A. Hannar	Hauling	1.00
14	Broderick & Bascom Rope Co.	Wire cord	1.65
14	J. R. Sanborn & Son	Office chair	6.00
14	Edward J. Aston	Water cooler	5.00
14	Julien P. Friez	Electric supplies	75.00
14	G. B. McCoy	Telegraphing, May	6.00
14	Geo. S. Wills	Services, Apr. 1 to May 31	6.10
14	A. J. Weidener	Lamp chimneys, etc	2.45
16	John M. Klein	Labor and material	18.15
16	W. J. Schultz & Co.	Repairing derrick	7.50
16	C. F. Marvin	Repairing typewriter	1.50
16	New England Telegraph and Telephone Co.	Telegraphing, May	1.70
16	R. H. Smith Manufacturing Co.	Metal type	19.20
16	Geo. Meier & Co.	Printers' ink	67.00
16	Louisville and Nashville R. R. Co.	Transporting H. C. Bate, Apr. 28	7.25
16	Baltimore and Ohio R. R. Co.	Transporting N. B. Conger, Apr. 4	11.00
16	C. S. Clinton	Cleaning clock	1.50
16	Geo. M. Chappel	Hauling	1.75
16	B. A. Jenne	Office rent, Idaho Falls, Idaho, May	30.00
16	E. A. Brown	Traveling expenses, June	3.00
16	John C. Parker	Varnish	16.50

*Expenditures Department of Agriculture for fiscal year ending June 30, 1893—Cont'd.*

## WEATHER BUREAU—GENERAL EXPENSES—Continued.

Date.	Name.	Nature of payment.	Total.
1893.			
June 16	J. H. Mills & Co.	Printers' supplies	\$44.00
16	Western Union Telegraph Co.	Telegraphing, January	11,425.71
19	Minnesota: St. Paul and Sault Ste. Marie Rwy.	Telegraphing, May	13.55
19	A. E. Hackett.	Drayage	1.30
19	Chas. M. Streves.	Stationery	232.50
19	Cincinnati, New Orleans and Texas Pacific Rwy. Co.	Transporting D. P. McCallum, May	4.20
19	J. W. Smith.	Traveling expenses, April	163.59
19	Frank A. Lawyer.	Mucilage, benzine, etc.	2.60
19	W. P. Wallace.	Stationery	2.95
19	W. C. Stark.	Stove, etc.	7.20
19	W. A. Pate.	Printing supplies	2.00
19	J. C. Entwistle.	Engraving	5.00
21	Duluth, South Shore and Atlantic Rwy. Co.	Transporting N. B. Conger, Apr. 4	10.94
21	Philadelphia and Reading R. R. Co.	Transporting J. W. Smith, May 16	3.25
21	The Detroit and Cleveland Steam Navigation Co.	Transporting N. B. Conger, May 31	3.75
21	Pennsylvania R. R. Co.	Transporting J. W. Smith, May 2	10.75
21	Chicago and West Michigan Rwy. Co.	Transporting N. B. Conger, May 8	5.05
21	Clarksburg and Weston Telegraph Co.	Telegraphing, May	10.40
21	J. H. Bunnell & Co.	Connectors	6.00
21	Missouri Pacific Rwy. Co.	Transporting H. C. Bate, Apr. 18	6.75
21	L. N. Heil.	Office rent, Montrose, Colo., Apr. 1 to May 31	65.33
21	W. T. Galliher & Bro.	Lumber	86.40
21	Royce & Marean.	Electrical supplies	88.75
23	The Seattle Transfer Co.	Drayage	3.50
23	J. D. Linden.	Repairing United States telephone	8.00
23	A. T. Warren.	do	5.00
23	John Fahah.	do	12.50
23	John C. Parker.	Typewriter supplies	1.50
23	do.	Envelopes	112.84
23	Paul Daniels.	Traveling expenses, May	11.90
23	Roger Manafort and Carbon Paper Co.	Agate style	3.75
23	Horace A. Tilton.	Moving instrument	2.00
23	Tyler Rubber Co.	Rubber tubing	10.17
23	Eugene A. Schwarz.	Hauling, etc.	1.50
23	Lookout Ice and Cold Storage Co.	Ice for May	6.20
23	W. C. Shelton.	Storage	2.00
23	D. C. Hibbard.	Repairing United States telegraph line	6.50
23	Arthur McNally.	do	7.50
23	Wyoming Midland Telegraph Co.	Telegraphing, May	13.98
23	Brown Printing Co.	Binding weather maps	2.50
23	Arhansas Carpet and Furniture Co.	Desk and chair	30.00
23	Wendt & Rausch.	Binding weather maps	6.00
23	Edward Butcher.	Moving wind vane	2.00
23	William Norrington.	Freightage	.50
23	J. M. Cline.	Drayage, etc.	1.25
23	Morrisen & Thorne.	Repairs to water cooler	3.25
23	Knickerbocker Ice Co.	Ice, Feb. 1 to June 30	7.24
23	Standard Engraving Co.	Electrotyping	1.25
23	Newman & Son.	Cyclostyle punches	24.25
30	W. J. Naylor <i>et al.</i>	Printing office roll, June	1,913.54
30	Robt. L. Packard <i>et al.</i>	Climatology roll, June	362.60
30	Frank Farish.	Services for June	83.20
	Total, fourth quarter		83,266.25
	<i>Supplemental.</i>		
July 1	Milton Whitney.	Services for June	197.80
3	William E. Hook, jr.	Transportation, Pikes Peak	20.00
3	Detroit, Lansing and Northern R. R. Co.	Transporting N. B. Conger, May 10.	6.90
3	E. H. Bowie.	Traveling expenses, May	7.75
3	Wm. Keane.	Labor and material	5.05
3	Chicago, Burlington, and Northern R. R. Co.	Telegraph service, May	2.16
3	Chicago, Burlington and Quincy R. R. Co.	Freight charges, February	8.70
3	P. J. Bolton.	Removing office, etc.	27.25
3	Henry J. Greene.	Thermometers	17.00

Expenditures Department of Agriculture for fiscal year ending June 30, 1893—Cont'd.

## WEATHER BUREAU—GENERAL EXPENSES—Continued.

Date.	Name.	Nature of payment.	Total.
1893. July 3	Lamier & Peebles Furniture Co.	Packing for shipment .....	\$6.25
3	Glineburg & Johnson	Labor and material .....	15.00
3	Old Colony R. R. Co.	Transporting J. W. Smith, May 29 .....	2.05
3	Chas. M. Stoever	Stationery .....	124.30
3	A. J. Keyser	Packing for shipment .....	5.00
3	M. Murray	Hire of team .....	15.00
3	Joe Coley	Repairing United States telegraph line .....	4.50
3	W. A. Shaw	Express charges .....	4.05
3	J. G. Upthegrove	Services, May 1 to June 30 .....	20.00
3	F. W. Dennison	do .....	20.00
3	Duluth Telephone Co.	Telephone service, Apr. 1 to June 30 .....	15.00
3	The Bell Telephone of Buffalo	Rent of telephone, Apr. 1 to June 30 .....	17.50
3	The Empire State Telephone and Telegraph Co.	Telephone service, Apr. 1 to June 30 .....	28.50
3	Pacific Telephone and Telegraph Co.	do .....	22.50
3	Black Hills Telegraph and Telephone Co.	do .....	21.00
3	C. L. Crocker	Services, Apr. 1 to June 30 .....	15.00
3	Pascual Moreno	do .....	6.00
3	A. F. Kinzler	Washing towels, Apr. 1 to June 30 .....	5.50
3	Union Ice Co.	Ice, Apr. 1 to June 30 .....	6.80
3	The Bell Telephone Co. of Philadelphia.	Telephone service, Apr. 1 to June 30 .....	30.00
3	Wm. A. Johnson	Services, Apr. 1 to June 30 .....	30.00
3	Edward W. Goffin	Service as cleaner, Apr. 1 to June 30 .....	9.00
3	John A. Barker	do .....	9.00
3	New England Telephone and Telegraph Co.	Rent of telephone, Apr. 1 to June 30 .....	12.50
3	Charles A. Kimball	Services, Apr. 15 to June 30 .....	12.50
3	J. W. Thompson	Rent of telephone, Apr. 1 to June 30 .....	15.00
3	Sunset Telephone and Telegraph Co.	do .....	15.00
5	Pat. Calhoun	Services as cleaner, May 1 to June 30 .....	8.00
5	Edison Mutual Telegraph Co.	Telegraphing in May .....	15.62
5	W. W. Neifert	Repairing stove, etc .....	.75
5	Hockenjos & Co.	Replacing river gauge .....	4.50
5	W. A. Joyce	Repairing river gauge .....	.50
5	George T. Todd	Drayage .....	.75
5	W. S. Gosnell	Services as cleaner, June .....	5.00
5	C. A. Beals	Drayage .....	1.50
5	W. M. Case	Services for June .....	40.00
5	Pay roll, Oswego, N. Y.	Substation salaries, Apr. 1 to June 30 .....	81.00
5	Pay roll, Woods Holl, Mass.	do .....	60.00
5	Pay roll, Jacksonville, Fla.	do .....	35.00
5	H. Brown	Drayage .....	1.50
5	Great Northwestern Telegraph Co.	Telegraphing, May .....	12.36
5	Chicago, St. Paul and Minneapolis and Omaha Rwy. Co.	Transporting E. A. Brown, Apr. 14 .....	19.25
5	Kohler Manufacturing Co.	Gum .....	4.50
5	Baltimore and Ohio R. R. Co.	Freight charges, Dec. 20 .....	55.33
5	C. F. Gregor	Services as cleaner, June .....	5.00
5	Pennsylvania Telephone Co.	Rent of telephone, Apr. 1 to June 30 .....	21.00
5	The National Printing Co.	Binding maps .....	5.00
5	The Central District and Printing Telegraph Co.	Telephone service, Apr. 1 to June 30 .....	15.00
5	Texas and Pacific Rwy. Co.	Transporting H. C. Bate, Apr. 20 .....	9.75
5	Western Union Telegraph Co.	Telegraphing, Feb. 1 to 28, etc .....	10,033.11
7	John K. Ward	Belting .....	25.20
7	Thos. J. Luttrell	Millinette .....	.90
7	Andrew Reirz	Sharpening knives .....	3.00
7	J. B. Chamberlain	Chemical supplies .....	4.95
7	Pay roll New Haven, Conn.	Substation salaries, Apr. 1 to June 30 .....	76.50
7	Pay roll Raleigh, N. C.	do .....	104.60
7	Pay roll Boston, Mass.	do .....	432.75
7	Pay roll Davenport, Iowa.	Substation salaries, Oct. 19 to Mar. 31, 1893 .....	19.70
7	John Edwards	Services as cleaner, June .....	3.00
7	M. H. Miller	Repairs to anemometer clock .....	1.50
7	George E. Franklin	Hauling .....	1.45
7	Fred W. Blanchard	Repairing caligraph .....	2.50
7	W. H. Garlock & Co.	Washing towels, Jan. 1 to June 30 .....	3.96
7	The Cleveland Telephone Co.	Rent of telephone, Apr. 1 to June 30 .....	18.00
7	Lewis R. Day	Hinges for map outifts .....	1.00
7	Goss Heating and Plumbing Co.	Droplight, etc .....	4.25
7	F. L. Gifford	Painting, etc .....	9.50
7	John J. Veeder	Repairing U. S. telephone line .....	34.00
7	F. J. Radamacher	Packing furniture .....	5.00
7	Geo. Hass Hagen	Repairing office clock .....	2.10

*Expenditures Department of Agriculture for fiscal year ending June 30, 1893—Cont'd.*

WEATHER BUREAU—GENERAL EXPENSES—Continued.

Date.	Name.	Nature of payment.	Total.
1893.			
July 7	Andrew McMaster .....	Putting up shelving .....	\$10.00
7	Joseph Evans .....	Erection of river gauge .....	7.50
7	New York and Pennsylvania Telephone and Telegraph Co. ....	Telephone service, Apr. 1 to June 30 .....	6.00
7	Thomas J. Leaton .....	Binding maps .....	3.00
7	The Arctic Ice Co. ....	Ice for June .....	3.00
7	E. E. Butler .....	Stand for typewriter .....	2.00
7	H. Hyman .....	Office case .....	2.50
7	Kate E. Reynolds .....	Services as cleaner, Apr. 1 to June 30 .....	15.00
7	Geo. H. Elson .....	Repairing clock .....	2.00
7	Chas. Otero .....	Cleaning clock, etc. ....	2.00
7	The South New England Telephone Co. ....	Telephone service, Apr. 1 to June 30 .....	31.25
7	The E. S. Greeley & Co. ....	Chemicals .....	50.47
7	Chas. M. Stoever .....	Paper .....	114.50
7	Emil Greiner .....	Packing case, etc. ....	13.25
7	J. M. Miller .....	Erecting river gauge .....	17.00
8	Julia A. McGowan, admx .....	Services Apr. 1 to June 7 .....	17.00
8	Pay roll Charleston, S. C. ....	Substation salaries, Apr. 1 to June 30 .....	265.40
22	Chicago and Gt. Western Ry. Co. ....	Transportation for J. M. Sherier, Mar., 1893 .....	6.90
22	Nashville, Chattanooga and St. Louis Rwy. Co. ....	Transporting H. C. Bate, April .....	4.50
22	J. P. Slaughter .....	Drayage, March .....	.25
22	Robert P. Hoxey .....	Labor, June .....	5.00
22	Thomas Robinson .....	Services displayman, June .....	25.00
22	Erie Telegraph and Telephone Co. ....	Telephone exchanges, April to June, 1893 .....	12.00
22	Pay roll Erie, Pa .....	Substation salaries, April to June .....	54.66
22	Brown Printing Co .....	Printing Crop Bulletin, May to June .....	5.00
22	Robt. C. Orrell .....	Livery hire, June 6 to 26 .....	6.00
22	D. B. Holland .....	Repairing telegraph line, June .....	1.50
22	South Bell Telephone and Telegraph Co. ....	Rent telephone, Apr. to June 30 .....	15.00
22	Troy Steam Laundry Co .....	Washing towels, Apr. 1 to June 30 .....	2.00
22	W. W. Morris .....	Building river gauge .....	30.00
22	Daniel Horsli .....	Washing towels, Apr. 1 to June 30 .....	5.25
22	Woodward & Tierman Printing Co. ....	Binding books .....	18.25
22	Valentine Montoya .....	Cleaning, June .....	5.00
22	E. L. Tyrell .....	Repairing anemometer .....	1.50
22	Arthur A. Day .....	Services, Apr. 21 .....	1.90
22	Toilet Supply Co. ....	Washing towels, June .....	1.50
22	Emma Ling .....	Services, cleaner .....	5.00
22	Fred. Fox, jr .....	Repairing roof, etc. ....	108.75
22	Emmons Bros. Hardware Co. ....	Oil .....	1.44
22	Sentinel Co. ....	Binding file copies .....	4.00
22	Wisconsin Telephone Co. ....	Rent telephone, Apr. 1 to June 30 .....	25.00
22	W. N. Van Duzen .....	Services for June .....	20.00
22	Pay roll, St. Louis, Mo. ....	Substation salaries, April to June .....	241.15
22	Pay roll, Harrisburg, Pa. ....	do .....	106.00
22	E. Drinkwater .....	Repairing telegraph lines, April and June .....	22.50
22	Pay roll, St. Paul, Minn. ....	Substation salaries, April to June .....	45.50
22	Pay roll, Lynchburg, Va. ....	do .....	45.00
22	Pay roll, Shreveport, La. ....	do .....	93.50
22	Pay roll, Cairo, Ill. ....	do .....	310.75
22	Pay roll, Nashville, Tenn. ....	do .....	63.70
22	Pay roll, Louisville, Ky. ....	do .....	18.20
22	J. N. Applebaugh .....	Services for June .....	36.00
22	Lake Shore and Michigan Southern Rwy. Co. ....	Transporting N. B. Conger and J. W. Smith in April .....	7.05
26	M. J. Adler .....	Oil stove .....	.50
26	B. F. Hough .....	Drayage, etc., Oct. 26, Dec. 5, 1892; June 1, 1893 .....	1.95
26	Oregon Telephone and Telegraph Co. ....	Telephone service, Apr. 1 to June 30 .....	22.50
26	C. B. Woodward Printing and Book Manufacturing Co. ....	Binding journals .....	4.50
26	Delaware and Atlantic Telegraph and Telephone Co. ....	Telephone rent, Apr. 1 to June 30 .....	12.00
26	Jennie Pritchett .....	Services as cleaner for June .....	3.00
26	Miles Jackson .....	do .....	5.00
26	J. C. Danforth .....	Printing, etc. ....	30.00
26	A. H. Welb .....	Displayman, Apr. 1 to June 30 .....	24.00
26	Thos. Duncan .....	do .....	24.00
26	P. Conner .....	Street-car tickets, delivering maps, June .....	2.50
26	James Downey .....	Services as cleaner, June .....	3.00
26	Amarillo Improvement Co. ....	Rent room, June .....	17.25
26	Real Estate and Law Building Co. ....	Rent room, Apr. 1 to June 30 .....	45.49

Expenditures Department of Agriculture for fiscal year ending June 30, 1893—Cont'd.

## WEATHER BUREAU—GENERAL EXPENSES—Continued.

Date.	Name.	Nature of payment.	Total.
1893.			
July 26	Buffalo Board of Trade.	Rent room, Apr. 1 to June 30.	\$142.06
26	Geo. W. Williams.	do	117.93
26	R. S. Williams.	do	66.00
26	Staples & Pelan.	do	57.12
26	Margaret Parmentier.	do	75.00
26	Albert Marty.	do	156.13
26	Walker & Hall.	do	70.00
26	Robert Sherrard.	Office cleaner, June.	3.00
26	Iowa Union Telephone Co.	Telephone rent, Apr. 1 to June 30.	12.00
26	Richard Titus.	Services as cleaner, June.	4.00
26	Great Southern Telegraph and Telephone Co.	Exchange service and rent, Apr. 1 to June 30.	15.00
26	South Bell Telephone and Telegraph Co.	do	15.00
26	A. J. Robbins.	Repairing telegraph line, June 29.	2.50
26	U. G. Purcell.	Hauling, May 16 to June 6.	1.00
26	John Palmer.	Services, June 5.	1.50
26	Hudson River Telephone Co.	Transmitting messages, Apr. 1 to June 30.	15.00
26	O. H. Willis.	Furnishing water, Apr. 1 to June 30.	9.00
26	Samuel C. Corse.	Cleaner, Apr. 1 to June 30.	11.25
26	James Evans.	do	9.00
26	A. E. Thompson.	Services, Apr. 1 to June 30.	22.75
26	Willie Junkins.	Services as cleaner, Apr. 1 to June 30.	9.75
26	Montgomery Light Co.	Gas, Apr. 1 to June 30.	4.40
26	Amasa S. Dyer.	Services, Apr. 1 to June 30.	30.00
28	Paul Devitt.	Rent rooms, Apr. 1 to June 30.	100.62
28	Amarillo Improvement Co.	Rent rooms, Apr. 1 to May 31.	44.50
28	Baer & Block.	Rent rooms, Apr. 1 to June 30.	87.50
28	Lorenzo Littlefield.	do	42.50
28	A. Schneider.	do	45.00
28	S. A. Raymond, agent.	do	175.00
28	John H. Clune.	do	49.50
28	F. E. Warren.	do	91.90
28	Chicago Auditorium Association.	do	172.56
28	Charles R. Wheeler.	do	125.00
28	Geo. French.	do	86.37
28	Masonic Temple Association, Davenport, Iowa.	do	75.00
28	E. F. Hallock.	do	150.00
28	C. M. Beeson.	do	97.91
28	American Exchange Bank.	do	114.47
28	H. H. Buhne.	do	72.41
28	Fresno Loan and Savings Bank.	do	100.00
28	W. L., R. A. and E. H. Andres.	do	57.53
28	Homier W. Styron.	do	38.62
28	Broadwater & Pepin.	do	90.00
28	Charles E. Bryant.	do	78.25
28	Abbie S. Ingalls.	do	83.83
28	R. McLaughlin.	do	78.04
28	The Kerney Opera House Co.	do	75.00
28	Matt Borland.	do	90.00
28	S. M. Apperson, administrator of estate J. R. Miller.	Room rent, Nov. 16, 1892, to June 30, 1893.	250.00
28	Catherine Wilson.	Room rent, Apr. 1, to June 30.	104.82
28	J. G. Payne, attorney for Law building.	do	67.50
28	Cotton Exchange Building Co.	do	120.00
28	Jno. L. Mitchell, executor.	do	163.75
28	B. J. Wolff.	Room rent for June.	25.00
28	First National Bank, Moorhead, Minn.	Room rent, Apr. 1 to June 30.	66.31
28	M. E. Conway.	Rent rooms, Apr. 1 to June 30.	37.74
28	F. M. Brown & Co.	do	100.00
28	Wallawalla Lodge, No. 56, I. O. O. F.	do	84.87
28	R. S. Dödson.	do	131.25
28	H. Overholser.	do	101.75
28	Joseph Chilbrey.	Room rent for June.	26.50
28	First National Bank, Palestine, Tex.	Rent room, Apr. 1 to June 30.	78.50
28	National Bank of Commerce.	do	112.00
28	Puget Sound Coöperation Colony.	do	59.00
28	Portland Trust Co., of Oregon.	do	150.00
28	Paul Wilson.	do	84.00
28	William Crawford.	do	30.00
28	Thomas Sweeney.	do	100.76
28	Cone & Kimball Co.	do	100.99

*Expenditures Department of Agriculture for fiscal year ending June 30, 1893—Cont'd.*

WEATHER BUREAU—GENERAL EXPENSES—Continued.

Date.	Name.	Nature of payment.	Total.
1893.			
July 28	S. Marks & Co.	Rent room, Apr. 1 to June 30.	\$75.50
28	Savannah Board of Trade	do	78.25
28	W. H. Wood & Co.	do	75.00
28	T. B. Catron	do	105.00
28	H. H. Taylor, agent	do	300.00
28	L. G. Nesmith	do	120.00
28	Alamo Fire Insurance Co.	do	75.00
28	J. C. De Laney	do	120.00
28	The First National Bank, Sault Ste. Marie, Mich.	do	85.75
28	D. Horton	do	90.00
28	E. H. Jamieson	do	64.20
28	E. A. Clarke & Co.	do	77.82
28	D. S. Hutchinson	do	85.74
28	The Columbian Building Co.	do	87.50
28	A. P. Eagleston	do	65.00
28	Paine Bros.	do	73.95
28	P. Laveaga Co. treasurer	do	67.00
28	The Sedgwick Building Investment Co.	do	90.75
28	F. L. Jackson, agent	do	74.25
28	J. P. Grady	do	105.94
28	Melina Wilcke	do	56.25
28	James Baker	do	68.75
28	Riley Watson	do	103.53
28	J. D. Bladgden	do	4.50
28	Thomaston and Barnesville Telegraph Line.	Traveling expenses, Oct. 17 to 22.	1.70
28	Central Union Telephone Co.	Transmitting messages in May	
28	W. W. Dent	Rent of telephone, Apr. 1 to June 30	81.00
28	M. E. Butler	Drayage, July 21 to Dec. 2, 1892	1.00
28	Wm. Tohnie	Drayage, Apr. 29, 1893	1.25
28	Pay roll, Wilmington, N. C., sub station.	Repairing instrument shelter, June	7.50
28	Great Southern Telegraph and Telephone Co.	Salaries, April and June	105.20
28	do	Telephone rent, June 1 to Mar. 31	25.00
28	C. Vincent	Telephone rent, Apr. 1 to June 30	25.00
28	Southern Bell Telephone and Telegraph Co.	Making chart box	2.00
28	D. P. McCallum	Telephone rent, Apr. 1 to June 30	15.00
28	East Tennessee Telephone Co.	Traveling expenses, June 23 to 29	2.00
28	Henry Schleyer	Transmitting weather reports, Apr. 1 to June 30	15.00
28	The City and Suburban Telegraph Association.	Repairing river gauge, June 26	3.50
28	Browning & Holmes	Telephone exchanges, Apr. 1 to June 30	25.00
28	F. P. Smith	Labor and material, May 16 to June 30	93.50
28	H. H. Curley	Labor, June 5 to 30	9.75
28	Chicago Telephone Co.	Hauling, Aug. 5, 1892, to June 24, 1893	1.00
28	R. F. Young	Rent of telephone, Apr. 1 to June 30	31.25
28	W. L. Moore	Traveling expenses, June 28 and 29	4.25
28	Campbell & Gregg	Drayage, May 12	.75
28	Flexner Bros.	Towel supply, Apr. 1 to June 30	3.00
28	J. E. Cairns	Stationery	5.40
28	M. Cotter	Express transportation	1.50
28	do	Horse and cart, Apr. 1 to June 30	31.25
28	G. A. Loveland	Ice for June	3.00
28	Pay roll, Savannah, Ga., substation.	Transportation, June 26	2.25
28	Kansas City Transfer Co.	Salaries, Apr. 1 to June 30	238.40
28	Frank R. Bianchi	Drayage, June 5	2.50
28	Southern New England Telephone Co.	Services as cleaner, Apr. 1 to June 30	9.00
28	E. J. Gifford	Rent of telephone, Apr. 1 to June 30	15.00
28	Memphis Light and Power Co.	Services, May 1 to June 30	15.25
28	James Higgins	Electric current, Apr. 1 to June 3	5.20
28	J. E. A. Harris	Services as cleaner, Apr. 1 to June 30	15.00
28	E. R. Demain	do	15.00
28	Missouri and Kansas Telephone Co.	Repairing rain gauge	.50
28	Standard Furniture Co.	Telephone exchange, June 30	18.00
28	M. Seller & Co. (incorporated)	Table	5.00
28	W. U. Simons	Water cooler	5.50
28	S. W. Postell	Benzine, etc.	1.20
28	Atlanta Telephone Exchange	Printing crop bulletin	39.00
28	Pay roll, Narragansett Pier.	Rent of telephone, Apr. 1 to June 30	17.00
28	R. L. substation	Salaries, April, May, and June	60.00
Aug. 3	Thos. Cleary	Services, Apr. 1 to June 30	13.00

*Expenditures Department of Agriculture for fiscal year ending June 30, 1893—Cont'd.*

WEATHER BUREAU—GENERAL EXPENSES—Continued.

Date.	Name.	Nature of payment.	Total.
1893.			
Aug. 3	New England Telephone and Telegraph Co.	Transmitting messages, June	\$1.20
3	E. J. Brooks & Co.	Twine	17.66
3	Anna L. Bean	Services, Apr. 1 to June 30	9.10
3	New England Telephone and Telegraph Co.	Transmitting messages, Jan. 1 to June 30	19.60
3	James Morton & Son Co.	Hardware	1.20
3	Strickland Printing Co.	Printing weather bulletin	3.00
3	The Ohio Valley Telephone Co.	Telephone exchange, Apr. 1 to June 30	21.00
3	J. Pearson	Taking river observation, Apr. 1 to June 30	12.50
3	Sunset Telephone and Telegraph Co.	Rent telephone, Apr. 1 to June 30	12.00
3	J. A. Brown	Storage, Mar. 1 to June 30	8.00
3	J. H. Smith	Repairing rain gauge	.40
3	Bohlen Huse Machine and Lake Ice Co.	Ice, May 2 to June 30	5.90
3	Missouri and Kansas Telephone Co.	Rent of telephone, Apr. 1 to June 30	21.00
3	Detour Telephone Line	Telephone, Apr. 1 to June 30	18.40
3	Pay roll, Cincinnati, Ohio, sub-station.	Salaries, April to June	435.40
3	Stock-Growers' National Bank	Rent of rooms, Apr. 1 to June 30	54.00
3	Wyoming Midland Telegraph Co.	Transmitting messages, June	12.20
3	Pay roll, Milwaukee, Wis., sub-station.	Salaries, Apr. 1 to June 30	189.36
3	D. W. Morse	Oil	1.50
3	John Gordon	do	3.00
3	S. S. Bassler	Repairing rain gauge	1.40
3	W. N. French	Services in June	15.00
3	Pay roll, St. Louis, Mo., sub-station.	Salaries, Apr. 1 to June 30	49.25
3	Pay roll, Montgomery, Ala., substation.	do	340.00
3	Pay roll, Augusta, Ga., substation.	do	36.30
3	Codd & Allen	Repairing anemoscope	25.00
3	W. H. T. Spencer	Repairing river gauge	11.50
3	B. H. Bronson	Traveling expenses, June 27 to July 10	7.25
3	Pennsylvania R. R. Co.	Freight charges, Apr. 5 to Mar. 13	11.83
3	do	Freight charges, Sept. 17	1.40
3	Alabama and Vicksburg R. R. Co.	Freight charges, Jan. 27 and Feb. 8	1.16
3	New York, Philadelphia and Norfolk R. R. Co.	Freight charges, June 5	.50
3	Norfolk and Washington Steamboat Co.	Freight charges, May 11	1.25
3	Vandalia Line	Freight charges, Apr. 26	10.04
3	Telephone and Telegraph Construction Co.	Rent of telephone, Apr. 1 to June 30	12.00
3	Nebraska Telephone Co.	Rent, April 1 to June 30	17.50
3	First National Bank, Bismarck, N. Dak.	Rent of rooms, Apr. 1 to June 30	105.00
3	Central District and Printing Telephone Co.	Rent of telephone, Apr. 1 to June 30	12.50
3	Frank P. Hall	Repairing river gauge	3.00
3	H. M. Knowles	Services, June 18	4.00
3	Missouri and Kansas Telephone Co.	Telephone exchange, Apr. 1 to June 30	12.00
3	Telephone and Telegraph Construction Co.	do	10.00
3	W. S. Harrison	Telephone instruments, Apr. 1 to June 30	9.75
3	David Jones	Services, Apr. 1 to June 30	3.00
3	Pay roll, Little Rock, Ark., sub-station.	Salaries, Apr. 1 to June 30	173.95
3	Pay roll, Memphis, Tenn., sub-station.	do	250.66
3	Pay roll, Pittsburg, substation	do	438.20
3	Pay roll, Davenport, Iowa, sub-station.	do	52.75
3	Pay roll, Fort Smith, Ark., sub-station.	do	27.30
3	Great Southern Telephone and Telegraph Co.	Rent of telephone, Apr. 1 to June 30	15.00
3	A. J. Mulligan	Services, Apr. 1 to June 30	27.00
3	G. B. McCoy	do	6.00
3	W. H. Renear	Livery hire, May and June	7.45
3	Pythian Land and Building Association.	Rent of rooms, Apr. 1 to June 30	75.25

*Expenditures Department of Agriculture for fiscal year ending June 30, 1893—Cont'd.*

WEATHER BUREAU—GENERAL EXPENSES—Continued.

Date.	Name.	Nature of payment.	Total.
1893.			
Aug. 3	Astoria Gas Light Co.	Gas, Apr. 1 to June 30.	\$5.60
3	J. R. Clinton	Line repairs, Apr. 1 to June 30	10.50
3	Thomas Ferrill	Services in June	10.50
3	John Fahe	do	7.00
3	Richmond and Danville R. R. Co.	Freight charges, May 9 and Feb. 5	24.38
3	Lucius M. Sheldon, by Horace B. Stevens, attorney.	Rent of rooms, Apr. 1 to June	84.42
3	Royce & Marean	Wire	30.00
3	Adams Express Co.	Express charges, May and June	62.97
3	J. H. Mills & Co.	Foot sticks	6.00
9	Chicago, Burlington and Northern R. R. Co.	Transporting John H. Harmon, February	29.00
9	Pay roll, Washington, D. C., substation.	Salaries, Apr. 1 to June 30	44.80
9	Payroll, Kansas City, Mo., substation.	do	91.00
9	Pay roll, Chattanooga, Tenn., substation.	do	105.40
9	Pay roll, La Crosse, Wis., substation.	do	18.20
9	Pay roll, New Orleans, La., substation.	do	461.00
9	Pay roll, Vicksburg, Miss., substation.	do	160.35
9	Pay roll, Portland, Oregon, substation.	do	80.97
9	Chamber of Commerce Building Co.	Rent of rooms, Apr. 1 to June 30	75.21
9	Nordhoff & Knaabe	Repairing clocks	10.00
9	United States Express Co.	Transportation, March and June	7.15
9	Park Morrill	Office expenses, Apr. 1 to June 30	7.75
9	Standard Furnishing Co.	Revolving chair	10.00
9	J. H. Simmons & Son	Bookcase	15.00
9	Michigan Central R. R. Co.	Transporting N. B. Conger, May	5.35
9	City Gaslight Co., of Norfolk	Electric light, Apr. 1 to June 30	6.00
9	McCormick & Bates	Hauling in May	1.00
9	East Louisiana R. R. Co.	Transmitting messages, Apr. 1 to June 30	7.30
9	Lookout Ice and Cold Storage Co.	Ice for June	6.00
9	W. C. Sheton	Storage, June	1.50
9	E. B. McIntyre	Services, June 28	1.25
9	Broadwater & Pepin	Ice, May and June	6.10
9	William Line	Services, Oct. 19, 1892, to June 12, 1893	.60
9	Great Southern Telephone and Telegraph Co.	Transmitting messages, Apr. 1 to June 30	21.60
9	D. C. Hibbard	Repairing telephone line	12.50
9	H. A. Yarnell	do	3.50
9	Southern Bell Telephone and Telegraph Co.	Telephone exchange, Apr. 1 to June 30	16.00
9	E. E. Howes	Livery hire in June	5.00
9	John J. Veeder	Hire of boat in June	2.00
9	Wm. H. H. Smith	Livery hire in June	2.00
9	Lyon L. Garrett	Water cooler	4.50
9	H. C. Frankinfield	Washing towels, May to June	2.00
9	Bell Telephone Co. of Missouri	Telephone exchanges, Apr. 1 to June 30	16.25
9	Chicago, Milwaukee and St. Paul Rwy. Co.	Transporting, N. B. Conger, April	3.39
9	Joseph Lawrence	Services, Apr. 1 to June 30	21.00
9	A. C. McMillin	Services, May 1 to June 30	20.00
9	O. D. Stewart	Hauling, September, 1892, to June, 1893	6.90
9	Jno. M. Klein	Drayage, April and June	1.00
9	C. E. Reed	Rent of room, Apr. 1 to June 30	6.00
9	Davidson & Joseph, agents	do	56.25
9	Pacific Club	do	72.50
9	Vernon H. Harris	do	16.25
9	Geo. S. Waite	do	103.86
9	Salt Lake City Board of Trade	do	137.50
9	Galveston Cotton Exchange	do	63.75
9	J. W. Branan	Services, Apr. 1 to June 30	15.00
9	Bryant, McEachen & Luce	Rent of rooms, Apr. 1 to June 30	90.41
9	Hanna S. Simmons	do	70.00
9	Annie A. McGovern	do	85.91
9	J. A. Hatfield	Services, Apr. 1 to June 30	30.00
9	E. Biondi	do	30.00
9	W. J. Tate	Corn	4.50
9	Weakley & Shields, agents	Rent of rooms, Apr. 1 to June 30	112.50
9	Henry Bolton	do	52.84
9	B. A. Jeune	Rent of rooms for June	30.00

Expenditures Department of Agriculture for fiscal year ending June 30, 1893—Cont'd.

## WEATHER BUREAU—GENERAL EXPENSES—Continued.

Date.	Name.	Nature of payment.	Total.
1893.			
Aug. 9	Missouri, Kansas and Texas Rwy. Co.	Transporting J. M. Sherier, March, 1893	\$17.10
9	P. T. Jenkins	Traveling expenses, May	5.50
9	Southern Bell Telephone and Telegraph Co.	Telephone exchange, Apr. 1 to June 30	15.00
9	Philadelphia, Reading and Pottsville Telegraph Co.	Transporting messages, Apr. 1 to June 30	4.50
9	Chicago, Burlington and Quincy R. R. Co.	Transporting R. F. Young, June	9.25
9	Bay City and Tillamook Telegraph Co.	Transmitting messages, October to November, 1892	4.00
9	do	Transmitting messages, December, 1892, and June, 1893	4.50
9	Natchitoches and People's Telegraph Line.	Transmitting cotton reports, Apr. 16 to June 30	37.50
9	Richmond and Danville R. R. Co.	Freight transportation, November and December, 1892	28.34
10	Pay roll, Augusta, Ga., subscription.	Salaries, Apr. 1 to June 30	136.80
10	Pay roll, Chicago, Ill., subscription.	do	219.36
10	Pay roll, Atlanta, Ga., subscription.	do	389.85
10	The American Bell Telephone Co.	Telephone instruments, etc	190.47
10	J. M. Bateman	Ice for June	1.50
10	Wm. E. Worth & Co.	do	6.00
10	Alphonso Congdon	Repairing tripod support	.75
10	L. M. Pindell	Drayage in June	1.92
10	C. Endress & Sons	Telephone service, May and June	5.50
10	Cumberland Telephone and Telegraph Co.	Rent of telephone, Apr. 1 to June 30	61.00
10	John A. Ramey	Repairing United States Telegraph line	10.00
10	Philadelphia, Wilmington and Baltimore R. R. Co.	Freight charges, June	.28
10	Leon J. Glaenzer & Co.	Thermograph bulbs	39.00
10	Henry J. Green	Repairing thermometers	42.50
10	M. W. Etheridge	Freriage, Apr. May, and June	17.50
10	Wm. B. Burford	Binding weather maps	2.50
10	Southwestern Telegraph and Telephone Co.	Telephone exchange, Apr. 1 to June 30	12.00
10	Brush Electric Light and Power Co.	Electric lights, Apr. 1 to June 30	13.75
10	Chas. E. Brown	Ice, Apr. 1 to June 30	7.28
10	C. E. Haynes	Services, Apr. 1 to June 30	15.00
10	Samuel Suecal	Repairing United States Telegraph line	2.00
10	C. Y. Fink	Repairing typewriter	2.00
10	Chas. E. Marshall	Making bulletin board	2.50
10	Great Northern Rwy. Co.	Freight charges, Apr.	.81
10	Pennsylvania R. R. Co.	Freight charges, November and December, 1892	3.81
10	Wilmington Iron Works	Hose, etc.	11.30
10	J. A. Lewis	Services, June 30; repairing instrument shelter	68.00
10	The Southern Bell Telephone and Telegraph Co.	Rent of telephone, Apr. 1 to June 30	15.00
10	J. A. Topping	Services, May 22 to June 30	24.00
10	Challis Hayman	Services, Apr. 1 to June 30	7.50
10	Wagner & Co.	Repairing clock	2.50
10	R. S. Smith	Repairing telegraph line	7.50
10	The Franklin Telephone Co.	Transmitting messages, March	1.50
10	Rising Sun Telegraph Line	Transmitting messages, Apr. 1 to June 30	4.80
10	The Lenoir and Blowing Rock Telegraph Co.	do	8.20
10	Chicago, Burlington and Northern R. R. Co.	Transmitting messages, June 1 to 30	3.19
10	Montgomery ice companies	Ice, May 20 to June 30	3.00
10	Minneapolis, St. Paul and Sault Ste. Marie Rwy. Co.	Transmitting messages, May and June	24.02
10	E. S. Ritchie & Son	150 feet insulated cable	9.00
10	The Ohio River Telegraph Co.	Transmitting messages, Jan. 1 to June 30	20.89
10	Thomaston and Barnesville Telegraph Line.	Transmitting messages, June 1 to 30	2.00
10	The Edison Mutual Telegraph Co.	do	8.92
10	The Great Northwestern Telegraph Co.	do	119.97
10	Portland and Rochester R. R.	Freight charges in June	1.83
10	Chicago, Milwaukee and St. Paul Rwy. Co.	Transporting N. B. Conger in May	2.55

*Expenditures Department of Agriculture for fiscal year ending June 30, 1893—Cont'd.*

WEATHER BUREAU—GENERAL EXPENSES.—Continued.

Date.	Name.	Nature of payment.	Total.
1893.			
Aug. 10	Robert Leitch & Sons .....	One red cross, etc .....	\$0.50
10	The Chesapeake and Potomac Telephone Co. ....	Telephone expenses, Jan. 1 to June 30 .....	75.00
10	Geo. W. Knox Express .....	Freight and drayage in June .....	.92
10	Andrew B. Graham .....	Engraving form .....	10.00
11	The Smithsonian Institution .....	Transmission of exchanges .....	20.30
11	J. C. Entwistle .....	Engraving chart .....	5.00
11	Orchard & Wilhelme Carpet Co. ....	Linoleum .....	1.00
11	R. H. Lawrence .....	Services in June .....	10.00
11	Roses' Art Store .....	Hooks, etc .....	1.45
11	H. S. Mann .....	Services in June .....	49.00
11	Wisconsin Telephone Co. ....	Rent of telephone, Apr. 1 to June 30 .....	12.50
11	Payroll, Galveston, Tex., substation. ....	Salaries, Apr. 1 to June 30 .....	230.00
11	Pay-roll, Corpus Christi, Tex., substation. ....	..... do .....	91.00
11	Montana National Bank .....	Rent of rooms, Apr. 1 to June 30 .....	125.00
11	New England Telephone and Telegraph Co. ....	Telephone service, Apr. 1 to June 30 .....	12.50
11	..... do .....	Rent of telephone, Apr. 1 to June 30 .....	12.50
11	First National Bank, Portland, Me. ....	Rent of rooms, Apr. 1 to June 30 .....	126.00
11	Chas. Shea .....	Services, Apr. 1 to June 30 .....	30.00
11	Charles F. Hammond .....	Rent of rooms, Jan. 1 to June 30 .....	425.00
11	Grant Rivenburg .....	Ice for June .....	2.25
11	W. B. Stockman .....	Drayage, etc., February to June .....	1.70
11	Frances E. Lesslie .....	Rent of rooms, Apr. 1 to June 30 .....	65.25
11	R. J. Hyatt .....	Drayage, etc., January to June .....	2.95
11	Forrest & Roche .....	Repairing thermograph clock .....	1.00
11	John Swainson .....	Services, Feb. 1 to June 30 .....	400.00
11	Baltimore and Ohio R. R. Co. ....	Transporting N. B. Conger, April .....	23.75
17	Michigan Central R. R. Co. ....	Transporting E. A. Brown <i>et al.</i> , June 15 .....	15.35
17	Hastings Steamboat Co. ....	Freight charges, Apr. 19 .....	2.30
17	..... do .....	Freight charges, Aug. 24 .....	2.50
17	East Tennessee, Virginia and Georgia Rwy. ....	Telegraphing, April, May, and June .....	1.20
17	Little Northern Telegraph Co. ....	Telegraphing, Apr. 1 to June 30 .....	12.50
17	Baltimore and Ohio Southwestern R. R. Co. ....	Freight charges, Apr. 25 .....	3.65
17	Baltimore and Ohio R. R. Co. ....	Freight charges, Apr. 3 .....	.55
17	Pay roll, Detroit, Mich., substation. ....	Salaries, Apr. 19 to June 30 .....	72.00
17	N. B. Conger .....	Traveling expenses, June .....	8.40
17	Pennsylvania R. R. Co. ....	Freight charges, June 12 .....	.67
17	..... do .....	Freight charges, Apr. 26 .....	6.39
17	Oregon, Salt Lake and Utah Rwy. Co. ....	Transportation, P. Daniels, May 31 .....	14.20
17	New York Central and Hudson River R. R. Co. ....	Freight charges, Apr. 25 .....	3.09
17	Wilmington, Columbia and Augusta R. R. Co. ....	Freight charges, Apr. 1 .....	.61
17	Lake Superior Transit Co. ....	Freight charges, May 22 .....	5.23
17	I. P. Roosa .....	Expressage, June 26 .....	2.75
17	Chicago, Milwaukee and St. Paul Rwy. Co. ....	Freight charges, Mar. 22 .....	2.55
17	Ohio and Mississippi Rwy. Co. ....	Freight charges, May 22 .....	10.25
17	Alabama and Vicksburg Rwy. Co. ....	Freight charges, Apr. 14 .....	2.14
17	Telephone and Telegraph Construction Co. ....	Telephone exchange, Jan. 1 to June 30 .....	90.00
17	A. H. Irons .....	Repairing river gauge .....	10.00
17	John M. Williams .....	Hauling .....	4.13
17	R. O. Williams .....	Freight charges, June 23 .....	.75
17	People's Mammoth Installment Co. ....	Mirror .....	2.00
17	Mamie F. Sartain .....	Washing towels, Apr. 1 to June 30 .....	3.45
17	Keufel & Esser .....	Measuring sticks .....	25.62
17	Michigan Bell Telephone Co. ....	Telegraphing, Jan. 1 to Mar. 31 .....	696.68
17	Isaac Friedenwald .....	Weather maps, etc .....	650.50
17	Burlington and Missouri River R. R. in Nebraska. ....	Freight charges, June 22 .....	3.57
17	New York Central and Hudson River R. R. Co. ....	Freight charges, Apr. 26 .....	2.89
18	United States Express Co. ....	Expressage .....	1.25
18	Royce & Marean .....	Electrical supplies .....	60.00
18	G. N. Salisbury .....	Hauling, etc .....	1.25
18	A. M. T. Cunningham, lessee. ....	Telegraphing, June .....	10.60
18	W. P. Wilson .....	Services June 1 to 30 .....	150.00
18	Louis Dorman .....	Drayage, etc .....	2.53

Expenditures Department of Agriculture for fiscal year ending June 30, 1893—Cont'd.

## WEATHER BUREAU—GENERAL EXPENSES—Continued.

Date.	Name.	Nature of payment.	Total.
1893.			
Aug. 18	R. O. Lazenby.	Drayage, etc.	\$0.75
18	Tidewater Telephone Co.	Telephoning, Mar. 1 to June 30	7.00
18	Edward H. Evans.	Drayage	.95
18	Julien P. Friez.	Rain and snow gauges	1,137.50
18	Northwestern Telephone Exchange Co.	Telephone exchange service, Apr. 1 to June 30.	18.00
18	New York, New Haven and Hartford R. R. Co.	Transporting J. W. Smith, May 19	4.17
18	Cincinnati, New Orleans and Texas Pacific Rwy. Co.	Transporting D. P. McCallum, June 24	4.20
24	Abraham Blunt.	Services, cleaner, Apr. 1, to June 30	4.50
24	Old Colony R. R. Co.	Transporting J. W. Smith, June 3	1.35
Sept. 2	Great Northwestern Telegraph Co.	Telegraphing, Jan. 1 to June 30	344.98
4	Enterprise Telegraph Co.	Telegraphing, Apr. 1 to June 30	5.20
13	P. H. E. Sloan.	Labor and material	26.00
13	Pay roll, Mobile, Ala., substation	Salaries, Apr. 1 to June 30	171.70
13	Baltimore and Ohio R. R. Co.	Freight charges, May 11	1.14
13	J. T. Harper.	Freight drayage, May 15	2.83
13	Ohio and Mississippi Rwy. Co.	Freight charges, June 23	1.17
13	Chicago and Northwestern Rwy. Co.	Freight charges, October, 1892	11.78
13	Lake Superior Transit Co.	Freight charges, Sept. 28	2.96
13	Wilmington, Columbia and Augusta R. R. Co.	Freight charges, Mar. 23	1.96
13	Western Union Telegraph Co.	Telegraphing, March	11,104.30
13	do	Telegraphing, April	11,195.96
13	do	Telegraphing, November, 1892	9.10
13	Newport News and Mississippi Valley Co.	Telegraphing, Sept. 1 to June 30	36.00
13	Pittsburg Telegraph Line	Telegraphing, Apr. 1 to June 30	6.20
20	Kentucky and Ohio Telegraph Line.	Telegraphing, December, 1892, to Mar. 31, 1893	23.00
20	F. W. Marshall.	Services, Apr. 1 to May 31	10.00
20	Kingwood and Cranberry Telegraph Co.	Telegraphing, January	3.30
20	do	Telegraphing, Feb. 1 to May 31	8.30
20	Chas. Stannard, jr.	Repairing roof, etc.	19.00
22	Belt & Dyer.	Sawdust	2.00
27	Southern Pacific Co. (Atlantic system).	Freight charges, May 18	.68
27	do	Freight charges, May 8	6.17
27	Chicago, St. Paul, Minneapolis and Omaha Rwy. Co.	Freight charges, July 7	1.94
27	do	Freight charges, Sept. 20	5.17
27	do	Freight charges, Oct. 29, 1892	3.03
27	Southern California Rwy. Co.	Freight charges, Apr. 29, 1893	.25
27	Chicago and Northwestern Rwy. Co.	Freight charges, Nov. 12, 1892	2.39
27	Alabama and Vicksburg R. R.	Freight charges, Feb. 16, 1892	1.80
27	San Antonio and Aransas Pass Rwy.	Freight charges, May 9, 1893	14.26
27	Vandalia Line.	do	2.15
27	New England Telephone and Telegraph Co.	Telegraphing, June 27 to 30	.40
28	Pennsylvania Rwy. Co.	Freight charges, May 31	2.16
28	Atchison, Topeka and Santa Fe R. R. Co.	Freight charges, Apr. 7	1.81
28	Chicago, Burlington and Quincy R. R. Co.	Freight charges, May 22	29.13
Oct. 2	Pennsylvania R. R. Co.	Freight charges, June 19	.88
2	Fort Worth and Denver City Rwy. Co.	Freight charges, May 31	2.23
2	Western Union Telegraph Co.	Telegraphing, etc., May, 1893	11,397.08
5	Royce & Marean.	Electrical supplies	40.30
5	C. B. Fenton & Co.	Composition roller	1.60
10	Chicago and Northwestern Rwy. Co.	Freight charges, May 25	77.14
10	William Gray & Son.	Relettering map frames	6.00
11	Flint and Pere Marquette R. R. Co.	Freight charges, Sept. 8	1.93
9	Western Union Telegraph Co.	Telegraphing, June	10,646.23
9	L. R. White.	Repairing United States Telegraph line	3.00
12	Adams Express Co.	Expressage	.50
18	Jacksonville, Tampa and Key West Rwy. Co.	Transporting P. J. Cahill, Oct. 14	11.20
20	Steam Gauge and Lantern Co.	Lanterns, etc.	27.00
20	St. Louis, Keokuk and Northwestern R. R. Co.	Freight charges, Mar. 7	3.82

Expenditures Department of Agriculture for fiscal year ending July 30, 1893—Cont'd.

## WEATHER BUREAU—GENERAL EXPENSES—Continued.

Date.	Name.	Nature of payment.	Total.
1893.			
Oct. 21	John Craig .....	Repairing snow gauge.....	\$0.25
25	J. M. Gallagher .....	Services, Apr. 1 to Sept. 30 .....	15.00
28	F. A. Schneider .....	Hardware.....	2.50
		Telegraphing and freight charges from Sept. 27 to Oct. 27.	16,122.21
	Total supplemental .....		95,362.05

## RECAPITULATION.

Total first quarter .....	\$26,897.64
Total second quarter .....	61,285.22
Total third quarter .....	88,524.26
Total fourth quarter .....	83,266.25
Supplemental .....	95,362.05

Total .....

## WEATHER BUREAU—GENERAL EXPENSES—SALARIES.

Date.	Name.	Nature of payment.	Total.
1892.			
Aug. 1	H. McP. Baldwin <i>et al</i> .....	Salaries for July .....	\$104.20
1	C. S. Gorgas <i>et al</i> .....	do .....	466.79
1	W. T. Blythe <i>et al</i> .....	do .....	125.60
1	Jno. Grover <i>et al</i> .....	do .....	110.76
1	D. Fisher <i>et al</i> .....	do .....	153.83
1	Alfred F. Sims <i>et al</i> .....	do .....	172.96
1	C. P. Cronk <i>et al</i> .....	do .....	310.86
1	W. H. Fallon <i>et al</i> .....	do .....	184.66
1	Wm. Davis <i>et al</i> .....	do .....	157.59
1	J. W. Smith <i>et al</i> .....	do .....	786.48
1	D. Cuthbertson <i>et al</i> .....	do .....	343.20
1	L. N. Jesunofsky <i>et al</i> .....	do .....	164.43
1	John W. Byram <i>et al</i> .....	do .....	156.59
1	I. G. Gardiner <i>et al</i> .....	do .....	117.83
1	L. M. Pindell <i>et al</i> .....	do .....	177.59
1	E. H. Thompson <i>et al</i> .....	do .....	165.59
1	W. B. Stockman <i>et al</i> .....	do .....	446.16
1	G. A. Loveland <i>et al</i> .....	do .....	106.83
1	P. T. Jenkins <i>et al</i> .....	do .....	533.04
2	H. C. Frankenfield <i>et al</i> .....	do .....	523.18
2	F. H. Duff <i>et al</i> .....	do .....	174.59
2	W. A. McNally <i>et al</i> .....	do .....	100.00
2	Chas. M. Strong <i>et al</i> .....	do .....	272.79
2	F. J. Walz <i>et al</i> .....	do .....	176.59
2	J. J. Gilligan <i>et al</i> .....	do .....	285.52
2	Geo. M. Chappel <i>et al</i> .....	do .....	353.52
2	Edward A. Evans <i>et al</i> .....	do .....	435.52
2	D. C. Murphy <i>et al</i> .....	do .....	157.59
2	Peter Wood <i>et al</i> .....	do .....	171.10
2	I. M. Cline <i>et al</i> .....	do .....	374.52
2	Geo. W. Felger <i>et al</i> .....	do .....	150.43
2	H. B. Dick <i>et al</i> .....	do .....	105.80
2	R. J. Hyatt <i>et al</i> .....	do .....	171.43
2	Frank Ridgway <i>et al</i> .....	do .....	131.10
2	E. J. Glass <i>et al</i> .....	do .....	107.83
2	Samuel W. Glenn <i>et al</i> .....	do .....	209.16
2	C. F. R. Wappenhaus <i>et al</i> .....	do .....	307.00
2	E. R. Delmain <i>et al</i> .....	do .....	198.63
2	A. J. Mitchell <i>et al</i> .....	do .....	170.52
2	P. Connor <i>et al</i> .....	do .....	333.28
2	W. H. Scholl <i>et al</i> .....	do .....	93.76
2	Henry Pennywitt <i>et al</i> .....	do .....	103.83
2	W. U. Simons <i>et al</i> .....	do .....	166.96
2	F. H. Clarke <i>et al</i> .....	do .....	249.35
2	Geo. E. Franklin <i>et al</i> .....	do .....	122.83
2	Frank Burke <i>et al</i> .....	do .....	286.95
2	J. N. Ryker <i>et al</i> .....	do .....	192.83
2	James L. Widmeyer <i>et al</i> .....	do .....	95.80
2	P. McDonough <i>et al</i> .....	do .....	95.80
2	Geo. Hass Hagan <i>et al</i> .....	do .....	13.881
2	W. M. Wilson <i>et al</i> .....	do .....	17.192

*Expenditures Department of Agriculture for fiscal year ending June 30, 1893—Cont'd.*

## WEATHER BUREAU—GENERAL EXPENSES—SALARIES—Continued.

Date	Name.	Nature of payment.	Total
1892.			
Aug. 2	Willis L. Moore <i>et al</i>	Salaries for July	\$424.96
2	J. H. Harmon <i>et al</i>	do	196.10
2	A. E. Hackett <i>et al</i>	do	95.76
2	Jas. A. Barry <i>et al</i>	do	152.96
2	M. E. Conway <i>et al</i>	do	74.31
2	J. B. Marbury <i>et al</i>	do	336.36
3	B. A. Blundon <i>et al</i>	do	245.76
3	H. J. Cox <i>et al</i>	do	162.83
3	E. C. Easton <i>et al</i>	do	458.88
3	E. B. Dunn <i>et al</i>	do	634.78
3	E. W. McGann <i>et al</i>	do	131.10
3	A. J. Davis <i>et al</i>	do	316.42
3	Louis Dorman <i>et al</i>	do	123.16
3	S. S. Bassler <i>et al</i>	do	336.76
3	Julius G. Linsley <i>et al</i>	do	157.59
3	E. B. Olney <i>et al</i>	do	114.76
3	Chas. A. Smith <i>et al</i>	do	110.82
3	L. M. Dey <i>et al</i>	do	483.16
3	O. D. Stewart <i>et al</i>	do	238.48
3	E. P. Jones <i>et al</i>	do	181.96
3	B. S. Pague <i>et al</i>	do	251.09
3	C. F. von Hermann	do	168.43
3	Arthur L. White <i>et al</i>	do	171.59
3	Thos. Gibson <i>et al</i>	do	116.83
3	P. H. Smyth <i>et al</i>	do	172.96
3	James A. Barwick	do	118.83
3	Geo. N. Salisbury <i>et al</i>	do	167.59
3	H. B. Hersey <i>et al</i>	do	174.59
3	Geo. H. Willson <i>et al</i>	do	527.12
3	D. J. Herndon <i>et al</i>	do	531.08
3	P. F. Lyons <i>et al</i>	do	271.76
3	B. F. Hough <i>et al</i>	do	219.53
3	C. L. Bozzel <i>et al</i>	do	108.83
3	Geo. B. Wurtz <i>et al</i>	do	97.76
3	John Craig <i>et al</i>	do	219.19
3	U. G. Pursell <i>et al</i>	do	93.82
3	Thomas J. Considine <i>et al</i>	do	100.47
3	J. E. Lanonette <i>et al</i>	do	200.59
3	T. B. Jennings <i>et al</i>	do	118.83
3	E. A. Hanner <i>et al</i>	do	177.96
3	J. C. Hayden <i>et al</i>	do	122.76
4	W. E. Butler <i>et al</i>	do	238.56
4	Fred L. Johnson <i>et al</i>	do	106.83
4	F. P. Chaffee <i>et al</i>	do	204.43
4	W. M. Edmondson <i>et al</i>	do	117.83
4	W. W. Dent	Salary for July	101.10
4	S. G. Duffey	do	75.80
4	H. W. Grasse	do	40.40
4	R. O. Lazenby	do	70.80
4	W. G. Mitchell	do	48.91
4	U. G. Meyers	do	84.20
4	W. A. Shaw	do	75.80
4	J. H. Smith	do	84.20
4	F. H. Brandenburg	do	92.83
4	M. H. Bailey	do	50.00
4	Wayland Bailey	do	91.83
4	F. R. Beahan	do	85.00
4	Wm. Bell	do	88.82
4	P. J. Bolton	do	87.82
4	Geo. D. Bouthcher	do	99.83
4	H. B. Boyer	do	100.00
4	Allen Buell	do	85.76
4	A. P. Butler	do	75.00
4	Ford A. Carpenter	do	82.76
4	R. M. Crawford	do	90.00
4	John H. Celery	do	85.00
4	F. W. Conrad	do	68.76
4	Maurice Connell	do	103.83
4	Thomas S. Collins	do	92.83
4	H. H. Curley	do	72.76
4	R. S. Dimmick	do	60.00
4	S. L. Dosher	do	87.83
4	E. L. Douglas	do	82.76
4	S. C. Emery	do	89.83
4	John Fitzgerald	do	93.83
4	R. B. Fulton	do	75.00
4	R. Q. Grant	do	91.83
4	Fred J. Gosewisch	do	89.83
4	H. P. Hardin	do	82.76
4	R. M. Hardinge	do	73.28

*Expenditures Department of Agriculture for fiscal year ending June 30, 1893—Cont'd.*

WEATHER BUREAU—GENERAL EXPENSES—SALARIES—Continued.

Date.	Name.	Nature of payment.	Total.
1892.			
Aug. 4	Otto B. Hart	Salary for July	\$60.80
4	M. L. Hearne	do	103.00
4	H. Irvine	do	82.06
4	N. D. Lane	do	102.76
4	William Line	do	90.83
4	C. W. Ling	do	82.76
4	D. P. McCallum	do	82.73
4	J. H. Melton	do	88.80
4	V. E. Muncy	do	30.00
4	F. Newman	do	100.00
4	W. W. Neifert	do	65.00
4	Wm. Norrington	do	89.83
4	L. F. Passailaque	do	87.82
4	M. H. Perry	do	103.83
4	J. C. Piercy	do	90.00
4	E. M. Ravenscroft	do	77.82
4	Geo. Reeder	do	80.00
4	J. P. Slaughter	do	73.82
4	Chas. Stewart	do	101.83
4	James P. Sherry	do	89.83
4	Geo. W. Scott	do	72.76
4	C. H. Stuller	do	101.83
4	Geo. T. Todd	do	72.76
4	L. A. Welsh	do	93.83
4	F. T. Williams	do	90.00
4	J. R. Williams	do	103.83
4	H. E. Wilkinson	do	102.83
4	H. R. Boynton	do	72.76
4	Walter P. Hill	do	82.76
4	O. T. Stacy	do	75.00
4	B. H. Bronson <i>et al.</i>	Salaries for July	189.89
6	Henry Gascon	Salary for July	15.00
6	Chas. Adie	do	65.00
6	W. F. Du Bois	Salary from July 12 to 21	10.00
6	John J. McLean	Salary for July	102.83
8	Delia M. Gunning	Salary from July 1 to 23	46.00
8	P. H. Mell	Salary for July	100.00
8	A. B. Considine	Salary from July 1 to 14	6.77
10	Harry Lowrie	Salary from July 18 to 31	13.00
12	Wm. Fahibusch	Salary from July 13 to 31	30.00
18	M. W. Lichtry	Salary from Aug. 1 to 5	13.35
19	Cator Woolford	Salary from July 23 to Aug. 6	30.00
24	Geo. M. Lamar	Salary from Aug. 1 to 14	11.29
31	Paul Beckwith	Salary for August	70.80
31	M. J. Wright, jr.	Salary from July 1 to 15	40.05
Sept. 1	Chas. Adie	Salary for August	65.00
1	J. D. Blagden	do	68.76
1	F. H. Brandenburg	do	92.83
1	M. H. Bailey	do	50.00
1	Wayland Bailey	do	91.83
1	F. R. Beahan	do	85.00
1	Wm. Bell	do	88.82
1	P. J. Bolon	do	87.82
1	H. B. Boyer	do	100.00
1	Geo. D. Boucher	do	99.83
1	H. R. Boynton	do	72.76
1	Allen Buell	do	85.76
1	Ford A. Carpenter	do	82.76
1	R. M. Crawford	do	90.00
1	John H. Celery	do	85.00
1	F. W. Conrad	do	68.76
1	Maurice Connell	do	103.83
1	Thomas S. Collins	do	92.83
1	H. H. Curley	do	72.76
1	W. W. Dent	do	101.10
1	R. S. Dimmick	do	60.00
1	S. L. Dosher	do	87.83
1	E. L. Douglas	do	82.76
1	S. G. Duffey	do	75.80
1	Cyrus Ellenberger	do	60.60
1	S. C. Emery	do	89.83
1	Jno. Fitzgerald	do	93.83
1	R. B. Fulton	do	75.00
1	H. W. Grasse	do	40.40
1	Fred Z. Gosewisch	do	89.83
1	Otto B. Hart	do	60.00
1	H. P. Hardin	do	82.76
1	R. M. Hardinge	do	73.82
1	M. L. Hearne	do	100.00
1	H. Irvine	do	82.76

Expenditures Department of Agriculture for fiscal year ending June 30, 1893—Cont'd.

## WEATHER BUREAU—GENERAL EXPENSES—SALARIES—Continued.

Date.	Name.	Nature of payment.	Total.
1892.			
Sept. 1	N. D. Lane	Salary for August	\$102.83
1	R. O. Lazenby	do	70.80
1	C. W. Ling	do	82.76
1	John J. McLean	do	102.83
1	D. P. McCallum	do	82.76
1	P. H. Mell	do	100.00
1	J. H. Melton	do	88.83
1	V. E. Muncy	do	30.00
1	F. Newman	do	100.00
1	W. W. Neifert	do	65.00
1	William Norrington	do	89.83
1	L. F. Passalaiague	do	87.82
1	M. H. Perry	do	103.83
1	E. M. Ravenscroft	do	77.82
1	Geo. Reeder	do	80.00
1	T. R. Ryan	Salary from July 1 to Aug. 31	111.20
1	W. A. Shaw	Salary for August	75.80
1	J. P. Slaughter	do	73.82
1	James P. Sherry	do	89.83
1	J. H. Smith	do	84.20
1	C. H. Stuller	do	101.83
1	L. M. Tarr	do	91.83
1	Geo. T. Todd	do	84.20
1	L. A. Welsh	do	93.83
1	J. R. Williams	do	103.83
1	H. E. Wilkinson	do	102.83
1	O. T. Stacy	do	75.00
1	F. T. Williams	do	90.90
1	W. T. Blythe <i>et al.</i>	Salaries for August	125.60
1	D. Fisher <i>et al.</i>	do	153.83
1	W. H. Fallon <i>et al.</i>	do	184.66
1	Wm. Davis <i>et al.</i>	do	157.59
1	L. N. Jesunofsky <i>et al.</i>	do	164.43
1	John W. Byram <i>et al.</i>	do	156.59
1	E. H. Thompson <i>et al.</i>	do	165.59
1	W. B. Stockman <i>et al.</i>	do	446.16
1	M. E. Blystone <i>et al.</i>	do	472.44
1	D. C. Murphy <i>et al.</i>	do	157.59
1	Peter Wood <i>et al.</i>	do	171.10
1	Geo. W. Felger <i>et al.</i>	do	150.43
1	H. B. Dick <i>et al.</i>	do	105.80
1	Samuel W. Glenn <i>et al.</i>	do	209.16
1	C. F. R. Wappenhaus <i>et al.</i>	do	307.00
1	A. J. Mitchell <i>et al.</i>	do	170.52
1	W. H. Scholl <i>et al.</i>	do	93.76
1	W. U. Simons <i>et al.</i>	do	166.96
1	Frank Burke <i>et al.</i>	do	286.95
1	Jas. A. Barry <i>et al.</i>	do	152.96
1	Geo. E. Hunt <i>et al.</i>	do	473.88
1	E. W. McGann <i>et al.</i>	do	131.10
1	Julius G. Linsley <i>et al.</i>	do	157.59
1	R. Q. Grant <i>et al.</i>	do	244.79
1	O. D. Stewart <i>et al.</i>	do	248.20
1	Geo. N. Salisbury <i>et al.</i>	do	167.59
1	H. B. Hersey <i>et al.</i>	do	174.59
1	G. H. Wilson <i>et al.</i>	do	383.76
1	P. F. Lyons <i>et al.</i>	do	271.76
1	B. F. Hough <i>et al.</i>	do	154.53
1	C. L. Bozzell <i>et al.</i>	do	108.83
1	John Craig <i>et al.</i>	do	219.19
1	Thomas J. Considine <i>et al.</i>	do	111.76
1	J. C. Hayden <i>et al.</i>	do	122.76
1	C. S. Gorzas <i>et al.</i>	do	466.79
1	H. McP. Baldwin <i>et al.</i>	do	104.20
1	Jno. Grove <i>et al.</i>	do	110.76
1	Alfred F. Sims <i>et al.</i>	do	172.96
1	C. P. Cronk <i>et al.</i>	do	310.86
1	J. W. Smith <i>et al.</i>	do	786.48
1	D. Cuthbertson <i>et al.</i>	do	343.20
1	I. G. Gardiner <i>et al.</i>	do	117.83
1	L. M. Pindell <i>et al.</i>	do	177.59
1	G. A. Loveland <i>et al.</i>	do	106.83
1	H. C. Frankenfield <i>et al.</i>	do	523.18
1	H. A. McNally <i>et al.</i>	do	100.00
1	Chas. M. Strong <i>et al.</i>	do	337.79
1	T. J. Walz <i>et al.</i>	do	190.59
1	J. J. Gilligan <i>et al.</i>	do	285.52
1	Geo. M. Chappel <i>et al.</i>	do	353.52
1	Edward A. Evans <i>et al.</i>	do	435.52
1	I. M. Cline <i>et al.</i>	do	374.52

*Expenditures Department of Agriculture for fiscal year ending June 30, 1893—Cont'd.*

WEATHER BUREAU—GENERAL EXPENSES—SALARIES—Continued.

Date.	Name.	Nature of payment.	Total.
1892.			
Sept. 1	R. J. Hyatt <i>et al.</i>	Salaries for August	\$171.43
1	Frank Ridgway <i>et al.</i>	do	131.10
1	E. J. Glass <i>et al.</i>	do	107.83
1	E. R. Demain <i>et al.</i>	do	198.63
1	P. Connor <i>et al.</i>	do	333.28
1	Henry Pennywitt <i>et al.</i>	do	103.83
1	F. H. Clark <i>et al.</i>	do	249.35
1	George E. Franklin <i>et al.</i>	do	122.83
1	J. N. Ryker <i>et al.</i>	do	192.83
1	Louis Dorman <i>et al.</i>	do	107.76
1	P. McDonough <i>et al.</i>	do	170.56
1	Geo. Hass Hagen <i>et al.</i>	do	113.83
1	W. L. Moore <i>et al.</i>	do	424.96
1	J. H. Harmon <i>et al.</i>	do	196.10
1	Thomas Crawford <i>et al.</i>	do	153.23
1	M. E. Conway <i>et al.</i>	do	85.60
1	J. B. Brown <i>et al.</i>	do	376.36
1	B. A. Blundon <i>et al.</i>	do	263.83
1	H. J. Cox <i>et al.</i>	do	162.83
1	E. B. Dunn <i>et al.</i>	do	634.78
1	A. J. Davis <i>et al.</i>	do	276.96
1	Jas. I. Widmeyer <i>et al.</i>	do	111.20
1	S. S. Bassler <i>et al.</i>	do	336.76
1	E. B. Olney <i>et al.</i>	do	114.76
1	Chas. A. Smith <i>et al.</i>	do	110.82
1	L. M. Dey <i>et al.</i>	do	459.56
1	E. P. Jones <i>et al.</i>	do	181.96
1	B. S. Pagne <i>et al.</i>	do	261.40
1	W. M. Edmondson <i>et al.</i>	do	117.83
1	C. F. von Hermann <i>et al.</i>	do	168.43
1	Arthur L. White <i>et al.</i>	do	171.59
1	P. H. Smyth <i>et al.</i>	do	172.96
1	James A. Barwick <i>et al.</i>	do	201.59
1	W. H. Hammon <i>et al.</i>	do	460.28
1	U. G. Purcell <i>et al.</i>	do	93.82
1	J. E. Lanonutte <i>et al.</i>	do	117.83
1	T. B. Jennings <i>et al.</i>	do	118.83
1	E. A. Hanner <i>et al.</i>	do	177.96
1	W. E. Butler <i>et al.</i>	do	169.80
1	Fred L. Johnson <i>et al.</i>	do	106.83
1	A. B. Crane <i>et al.</i>	do	309.23
1	A. P. Butler <i>et al.</i>	do	75.00
1	William Line	Salary for August	90.83
1	W. G. Mitchell	do	60.60
1	B. H. Bronson <i>et al.</i>	Salaries for August	141.40
1	W. M. Wilson <i>et al.</i>	do	217.19
2	Thos. Gibson <i>et al.</i>	do	116.83
2	Chas. Stewart	Salary for August	101.83
2	Geo. W. Scott	do	72.76
2	J. C. Piercy	do	90.00
6	Harry Lowrie	Salary from Aug. 1 to 16	15.48
6	Wm. Fahrbusch	Salary from Aug. 17 to 31	14.52
6	do	Salary from Aug. 1 to 16	28.00
6	Etta A. Emens	Salary from Aug. 15 to 16	20.00
6	Geo. B. Wurtz <i>et al.</i>	Salaries for August	118.76
6	W. H. Wise, jr.	Salary from Aug. 19 to 31	26.00
7	Wilbur Gilmore	do	20.00
10	Jas. H. King	Salary from Aug. 15 to 31	30.00
14	Charles L. Griffin	Salary from Sept. 1 to 6	11.74
14	D. B. Ryan	Salary for August	2.58
14	J. V. Gonzales	Salary from Sept. 1 to 7	5.83
14	W. D. Noble	Salary from Aug. 21 to 31	20.00
19	R. Q. Williams	Salary from Aug. 23 to 31	11.61
30	Allen Buell	Salary for September	85.76
30	J. B. Marbury	do	122.20
30	Titus S. Townsend	Salary, Sept. 29 to 30	3.91
	Total first quarter		54,960.56
Oct. 1	Chas. Adie	Salary for September	65.00
1	J. D. Blagden	do	68.75
1	F. H. Brandenberg	do	92.83
1	M. H. Bailey	do	50.00
1	Wayland Bailey	do	91.83
1	F. R. Beahan	do	85.00
1	Wm. Bell	do	88.82
1	P. J. Bolton	do	87.82
1	Geo. D. Boucher	do	99.83
1	H. B. Boyer	do	100.00
1	H. R. Boynton	do	72.76

## Expenditures Department of Agriculture for fiscal year ending June 30, 1893—Cont'd

## WEATHER BUREAU—GENERAL EXPENSES—SALARIES—Continued.

Date.	Name.	Nature of payment.	Total.
1892.			
Oct. 1	A. P. Butler	Salary for September	\$75.00
1	Ford A. Carpenter	do	82.76
1	F. W. Conrad	do	68.76
1	M. E. Conway	do	58.80
1	Maurice Connell	do	103.83
1	Thomas S. Collins	do	92.83
1	H. H. Curley	do	72.76
1	W. W. Dent	do	97.80
1	R. S. Dimmick	do	60.00
1	S. L. Dosher	do	87.83
1	E. D. Douglas	do	82.76
1	S. G. Duffey	do	73.40
1	S. C. Emery	do	89.83
1	Jno. Fitzgerald	do	93.83
1	R. B. Fulton	do	75.00
1	H. W. Grasse	do	39.20
1	Fred Z. Gosewich	do	89.83
1	Otto B. Hart	do	60.00
1	H. P. Hardin	do	82.76
1	R. M. Hardinge	do	73.82
1	M. L. Hearne	do	100.00
1	H. Irvine	do	82.76
1	N. D. Lane	do	102.83
1	R. O. Lazenby	do	68.40
1	William Line	do	90.83
1	John J. McLean	do	102.83
1	P. H. Mell	do	100.00
1	J. H. Melton	do	88.83
1	W. G. Mitchell	do	58.80
1	V. E. Muncy	do	30.00
1	T. Newman	do	100.00
1	W. W. Neifort	do	65.00
1	William Norrington	do	89.83
1	L. F. Passalaigue	do	87.82
1	B. S. Pagne	do	122.20
1	M. H. Perry	do	103.83
1	J. C. Piercy	do	90.00
1	E. M. Ravenscraft	do	77.82
1	George Reeder	do	83.00
1	H. W. Richardson	do	81.60
1	T. R. Ryan	do	53.80
1	W. A. Shaw	do	73.40
1	Chas. Stewart	do	101.83
1	James P. Sherry	do	89.83
1	J. H. Smith	do	81.60
1	Geo. W. Scott	do	72.76
1	C. H. Stuller	do	101.83
1	L. M. Tarr	do	91.83
1	George T. Todd	do	81.60
1	E. H. Thompson	do	92.83
1	L. A. Welsh	do	93.83
1	F. T. Williams	do	90.00
1	J. R. Williams	do	103.83
1	H. E. Wilkinson	do	102.83
1	Park Morrill <i>et al.</i>	Salaries for September	463.19
1	H. Mc. P. Baldwin <i>et al.</i>	do	101.60
1	W. T. Blythe <i>et al.</i>	do	123.80
1	Jno. Grover <i>et al.</i>	do	110.76
1	D. Fisher <i>et al.</i>	do	153.83
1	Alfred F. Sims <i>et al.</i>	do	170.36
1	C. B. Cronk <i>et al.</i>	do	304.56
1	W. H. Fallon <i>et al.</i>	do	184.66
1	Wm. Davis <i>et al.</i>	do	157.59
1	J. W. Smith <i>et al.</i>	do	771.88
1	D. Cuthbertson <i>et al.</i>	do	333.60
1	L. N. Jesuofsky <i>et al.</i>	do	162.63
1	John W. Byram <i>et al.</i>	do	156.59
1	I. G. Gardiner <i>et al.</i>	do	117.83
1	L. M. Pindell <i>et al.</i>	do	177.59
1	W. B. Stockman <i>et al.</i>	do	433.96
1	G. A. Loveland <i>et al.</i>	do	106.83
1	H. C. Frankenfield <i>et al.</i>	do	427.56
1	P. T. Jenkins <i>et al.</i>	do	468.24
1	H. A. McNally <i>et al.</i>	do	100.00
1	F. J. Walz <i>et al.</i>	do	190.59
1	J. J. Gilligan <i>et al.</i>	do	285.52
1	Geo. M. Campbell <i>et al.</i>	do	347.52
1	Edward A. Evans <i>et al.</i>	do	426.52
1	B. H. Bronson <i>et al.</i>	do	211.96
1	D. C. Murphy <i>et al.</i>	do	157.59

Expenditures Department of Agriculture for fiscal year ending June 30, 1893—Cont'd.

## WEATHER BUREAU—GENERAL EXPENSES—SALARIES—Continued.

Date.	Name.	Nature of payment.	Total.
1892.			
Oct. 1	Peter Wood <i>et al.</i>	Salaries for September	\$167.80
1	J. M. Cline <i>et al.</i>	do	368.52
1	Geo. W. Felger <i>et al.</i>	do	148.63
1	H. B. Dick <i>et al.</i>	do	103.40
1	R. J. Hyatt <i>et al.</i>	do	169.63
1	E. J. Glass <i>et al.</i>	do	107.83
1	E. H. Emery <i>et al.</i>	do	292.78
1	C. F. R. Wappenhaus <i>et al.</i>	do	301.00
1	E. R. Demain <i>et al.</i>	do	196.23
1	A. J. Mitchell <i>et al.</i>	do	170.52
1	P. Connor <i>et al.</i>	do	333.28
1	W. H. Scholl <i>et al.</i>	do	93.76
1	Henry Pennywitt <i>et al.</i>	do	103.83
1	W. U. Simons <i>et al.</i>	do	164.36
1	F. H. Clarke <i>et al.</i>	do	249.35
1	George E. Franklin <i>et al.</i>	do	122.83
1	Frank Burke <i>et al.</i>	do	285.15
1	J. N. Ryker <i>et al.</i>	do	251.63
1	Louis Dorman <i>et al.</i>	do	107.76
1	P. McDonough <i>et al.</i>	do	93.40
1	Geo. Hass Hagen <i>et al.</i>	do	113.83
1	W. M. Wilson <i>et al.</i>	do	215.39
1	Willis L. Moore <i>et al.</i>	do	416.36
1	J. H. Harmon <i>et al.</i>	do	192.80
1	A. E. Hackett <i>et al.</i>	do	158.69
1	Jas. A. Barry <i>et al.</i>	do	150.36
1	J. B. Brown <i>et al.</i>	do	270.32
1	B. A. Blundon <i>et al.</i>	do	163.83
1	H. J. Cox <i>et al.</i>	do	162.83
1	Geo. E. Hunt <i>et al.</i>	do	384.32
1	E. W. McGann <i>et al.</i>	do	127.80
1	E. B. Dunn <i>et al.</i>	do	688.94
1	A. J. Davis <i>et al.</i>	do	261.40
1	Jas. I. Widmeyer <i>et al.</i>	do	107.60
1	G. E. Lawton <i>et al.</i>	do	330.76
1	Julius G. Linsley <i>et al.</i>	do	157.59
1	E. C. Easton <i>et al.</i>	do	107.76
1	L. M. Dey <i>et al.</i>	do	398.36
1	U. G. Myers <i>et al.</i>	do	150.36
1	O. D. Stewart <i>et al.</i>	do	239.80
1	E. P. Jones <i>et al.</i>	do	179.36
1	H. F. Alciator <i>et al.</i>	do	207.76
1	W. M. Edmonson <i>et al.</i>	do	117.83
1	C. F. von Herrmann <i>et al.</i>	do	166.63
1	Arthur L. White <i>et al.</i>	do	171.59
1	Thos. Gibson <i>et al.</i>	do	116.83
1	P. H. Smyth <i>et al.</i>	do	170.36
1	Jas. A. Barwick <i>et al.</i>	do	201.59
1	Geo. N. Salisbury <i>et al.</i>	do	167.59
1	H. B. Hersey <i>et al.</i>	do	174.59
1	G. H. Willson <i>et al.</i>	do	469.26
1	W. H. Hammon <i>et al.</i>	do	454.28
1	P. F. Lyons <i>et al.</i>	do	265.76
1	B. F. Hough <i>et al.</i>	do	152.43
1	C. L. Bozzell <i>et al.</i>	do	108.83
1	John Craig <i>et al.</i>	do	217.39
1	U. G. Pursell <i>et al.</i>	do	93.82
1	Thos. J. Considine <i>et al.</i>	do	111.76
1	J. E. Lanonett <i>et al.</i>	do	117.83
1	T. B. Jennings <i>et al.</i>	do	118.83
1	E. A. Hanner <i>et al.</i>	do	175.36
1	J. C. Hayden <i>et al.</i>	do	122.76
1	W. E. Butler <i>et al.</i>	do	165.40
1	Charlie Hatton <i>et al.</i>	do	106.83
1	A. B. Crane <i>et al.</i>	do	303.03
1	J. P. Slaughter <i>et al.</i>	do	133.82
1	Chas. A. Smith <i>et al.</i>	do	217.58
1	R. M. Cranford	Salary for September	90.00
1	Otis Reisinger	Salary from Sept. 22 to 30	17.61
1	O. T. Stacy	Salary for September	75.00
1	C. W. Ling	do	82.76
1	John H. Clery	do	85.00
1	Chas. M. Strong <i>et al.</i>	Salaries for September	253.59
1	C. E. Hartman	Salary for September	30.00
1	Frank Ridgway <i>et al.</i>	Salaries for September	161.06
1	F. W. Fairman	Salary, Sept. 16 to 30	5.00
1	R. Q. Grant	Salary for September	91.83
4	Delia M. Gunning	Services, Sept. 10 to 28	30.00
8	P. J. Cahill	Salary, Sept. 26 to 30	9.78
12	Jas. H. King	Salary for September	52.00

Expenditures Department of Agriculture for fiscal year ending June 30, 1893—Cont'd.

## WEATHER BUREAU—GENERAL EXPENSES—SALARIES—Continued.

Date.	Name.	Nature of payment.	Total.
1892.			
Oct. 17	J. B. Sloan	Services, Sept. 16 to 30	\$15.00
25	Horace I. Price	Services as messenger, September	20.00
27	R. O. Williams	Services as operator, September	40.00
27	H. H. Pease	Services as observer, Sept. 26 to Oct. 13	18.00
31	George E. Franklin	Salary for October	102.83
31	S. W. Glenn	do	126.40
31	S. S. Bassler	do	126.40
Nov. 1	Chas. Adie	do	65.00
1	J. D. Blagden	do	68.76
1	F. B. Brandenburg	do	92.83
1	M. H. Bailey	do	50.00
1	Wayland Bailey	do	91.33
1	F. R. Beahan	do	85.00
1	P. J. Bolton	do	87.82
1	Geo. D. Boucher	do	99.83
1	H. B. Boyer	do	100.00
1	H. R. Boynton	do	72.76
1	Allen Buell	do	85.76
1	Ford A. Carpenter	do	82.76
1	John H. Clery	do	85.00
1	F. W. Conrad	do	68.76
1	M. E. Conway	do	60.60
1	Maurice Connell	do	103.83
1	Thomas S. Collins	do	92.83
1	H. H. Curley	do	72.76
1	W. W. Dent	do	101.10
1	R. S. Dimmick	do	60.00
1	S. L. Dosher	do	87.83
1	E. L. Douglas	do	82.76
1	S. G. Duffey	do	75.80
1	S. C. Emery	do	89.83
1	Jno. Fitzgerald	do	93.83
1	R. B. Fulton	do	75.00
1	H. W. Grasse	do	40.40
1	Fred. Z. Gosewisch	do	89.83
1	Otto B. Hart	do	60.00
1	H. P. Hardin	do	82.76
1	R. M. Hardinge	do	73.82
1	M. L. Hearne	do	100.00
1	H. Irvine	do	82.76
1	N. D. Lane	do	102.83
1	R. O. Lazenby	do	70.80
1	William Lutie	do	90.83
1	C. W. Ling	do	82.76
1	John J. McLean	do	102.83
1	J. H. Melton	do	88.83
1	W. W. Neifert	do	65.00
1	William Norrington	do	89.83
1	L. F. Passalaigue	do	87.82
1	M. H. Perry	do	103.83
1	J. C. Piercy	do	90.00
1	E. W. Ravencraft	do	77.82
1	George Reeder	do	80.00
1	T. R. Ryan	do	55.60
1	W. A. Shaw	do	75.80
1	O. T. Stacy	do	75.00
1	Chas. Stewart	do	101.83
1	James P. Sherry	do	89.83
1	J. H. Smith	do	84.20
1	Geo. W. Scott	do	72.76
1	C. H. Stuller	do	101.83
1	L. M. Tarr	do	91.83
1	Geo. T. Todd	do	84.20
1	E. H. Thompson	do	92.83
1	L. A. Welsh	do	93.83
1	F. T. Williams	do	90.00
1	J. R. Williams	do	103.83
1	H. E. Wilkinson	do	102.83
1	G. H. Wilson	do	102.83
1	V. E. Muncey	do	30.00
1	A. P. Butler	do	75.00
1	Parke Morrill <i>et al.</i>	Salaries for October	387.59
1	H. McP. Baldwin <i>et al.</i>	do	104.20
1	W. T. Blythe <i>et al.</i>	do	125.60
1	Jno. Grover <i>et al.</i>	do	110.76
1	D. Fisher <i>et al.</i>	do	153.83
1	Alfred Sims <i>et al.</i>	do	172.96
1	C. P. Cronk <i>et al.</i>	do	255.26
1	W. H. Fallon <i>et al.</i>	do	184.66
1	Wm. Davis <i>et al.</i>	do	157.59

*Expenditures Department of Agriculture for fiscal year ending June 30, 1893—Cont'd.*

WEATHER BUREAU—GENERAL EXPENSES—SALARIES—Continued.

Date.	Name.	Nature of payment.	Total.
1892.			
Nov. 1	J. W. Smith <i>et al</i>	Salaries for October	\$786.48
1	D. Cuthbertson <i>et al</i>	do	343.20
1	L. N. Jesunofsky <i>et al</i>	do	164.43
1	John W. Byram <i>et al</i>	do	156.59
1	I. G. Gardiner <i>et al</i>	do	117.88
1	L. M. Pinzell <i>et al</i>	do	177.59
1	W. B. Stockman <i>et al</i>	do	446.16
1	G. A. Loveland <i>et al</i>	do	106.83
1	H. C. Frankenfield <i>et al</i>	do	435.36
1	P. T. Jenkins <i>et al</i>	do	472.44
1	H. A. McNally <i>et al</i>	do	100.00
1	Chas. M. Strong <i>et al</i>	do	337.79
1	F. J. Walz <i>et al</i>	do	190.59
1	J. J. Gilligan <i>et al</i>	do	285.52
1	Geo. M. Chappel <i>et al</i>	do	353.52
1	Edward A. Evans <i>et al</i>	do	435.52
1	B. H. Bronson <i>et al</i>	do	216.16
1	D. C. Murphy <i>et al</i>	do	157.59
1	Peter Wood <i>et al</i>	do	171.10
1	I. M. Cline <i>et al</i>	do	374.52
1	Geo. W. Felger <i>et al</i>	do	150.43
1	H. B. Dick <i>et al</i>	do	105.80
1	R. J. Hyatt <i>et al</i>	do	171.43
1	Frank Ridgway <i>et al</i>	do	191.70
1	E. J. Glass <i>et al</i>	do	107.88
1	E. H. Emery <i>et al</i>	do	170.58
1	J. M. Sherier <i>et al</i>	do	391.20
1	E. R. Demain <i>et al</i>	do	198.63
1	A. J. Mitchell <i>et al</i>	do	170.52
1	P. Connor <i>et al</i>	do	333.28
1	W. H. Scholl <i>et al</i>	do	93.76
1	Henry Pennywitt <i>et al</i>	do	103.83
1	W. U. Simons <i>et al</i>	do	166.96
1	F. H. Clarke <i>et al</i>	do	237.19
1	S. M. Blandford <i>et al</i>	do	102.76
1	Frank Burke <i>et al</i>	do	286.95
1	J. N. Ryker <i>et al</i>	do	188.43
1	Louis Dorman <i>et al</i>	do	107.76
1	P. McDonough <i>et al</i>	do	95.80
1	Geo. Hass Hagen <i>et al</i>	do	113.82
1	W. M. Wilson <i>et al</i>	do	217.19
1	W. L. Moore <i>et al</i>	do	424.96
1	J. H. Harmon <i>et al</i>	do	196.10
1	A. E. Hackett <i>et al</i>	do	95.76
1	Jas. A. Barry <i>et al</i>	do	152.96
1	J. B. Marbury <i>et al</i>	do	358.52
1	B. A. Blundon <i>et al</i>	do	163.83
1	H. J. Cox <i>et al</i>	do	265.26
1	Geo. E. Hunt <i>et al</i>	do	459.88
1	E. W. McGann	do	131.10
1	E. B. Dunn <i>et al</i>	do	612.20
1	A. J. Davis <i>et al</i>	do	266.80
1	Jas. I. Widmeyer <i>et al</i>	do	111.20
1	G. E. Lawton <i>et al</i>	do	210.36
1	Julius G. Linsley <i>et al</i>	do	157.59
1	Wm. Bell <i>et al</i>	do	118.92
1	L. M. Dey <i>et al</i>	do	408.96
1	U. G. Myers <i>et al</i>	do	252.56
1	O. D. Stewart <i>et al</i>	do	257.60
1	E. P. Jones <i>et al</i>	do	181.96
1	B. S. Pague <i>et al</i>	do	344.56
1	W. M. Edmondson <i>et al</i>	do	117.83
1	Arthur S. White <i>et al</i>	do	171.59
1	Thos. Gibson <i>et al</i>	do	116.83
1	P. H. Smyth <i>et al</i>	do	172.96
1	Jas. A. Barwick <i>et al</i>	do	118.83
1	Geo. N. Salisbury <i>et al</i>	do	167.59
1	H. B. Hersey <i>et al</i>	do	125.74
1	Paul Daniels <i>et al</i>	do	454.29
1	W. H. Hammon <i>et al</i>	do	460.28
1	P. F. Lyons <i>et al</i>	do	271.76
1	B. F. Hough <i>et al</i>	do	154.53
1	C. L. Bozzell <i>et al</i>	do	108.83
1	Chas. A. Smith <i>et al</i>	do	183.58
1	John Craig <i>et al</i>	do	219.19
1	U. G. Pursell <i>et al</i>	do	93.82
1	Thomas J. Considine <i>et al</i>	do	111.76
1	J. E. Lanonette <i>et al</i>	do	178.43
1	T. B. Jennings <i>et al</i>	do	118.83
1	E. A. Hanner <i>et al</i>	do	177.96

Expenditures Department of Agriculture for fiscal year ending June 30, 1893—Cont'd.

## WEATHER BUREAU—GENERAL EXPENSES—SALARIES—Continued.

	Name.	Nature of payment.	Total.
1892.			
Nov. 1	J. C. Hayden <i>et al</i> .....	Salaries for October .....	\$122.76
1	W. E. Butler <i>et al</i> .....	do .....	169.80
1	Fred L. Johnson <i>et al</i> .....	do .....	106.83
1	A. B. Crane <i>et al</i> .....	do .....	309.23
1	J. P. Slaughter <i>et al</i> .....	do .....	133.82
3	C. A. Armstrong .....	Services, Oct. 7 to 15 .....	16.00
3	R. M. Crawford .....	Services for October .....	90.00
5	Ernst T. Giers .....	Services, Oct. 14 to 31 .....	35.22
8	R. Q. Grant .....	Services for October .....	91.83
9	F. Newman .....	do .....	100.00
11	H. T. Price .....	do .....	20.00
11	C. F. von Herrmann <i>et al</i> .....	Salaries for October .....	168.43
11	Henrietta H. Fallon .....	Services, Oct. 17 to 31 .....	26.00
12	E. C. Easton <i>et al</i> .....	Salaries for October .....	107.76
21	E. B. Olney .....	Salary, Sept. 1 to 11 .....	31.08
25	Jas. H. King .....	Six days' salary .....	12.00
25	J. B. Sloan .....	Salary, Nov. 1 to 11 .....	11.00
30	H. H. Clayton .....	Salary for November .....	122.20
30	C. F. R. Wappenhaus .....	do .....	122.20
30	E. B. Calvert .....	do .....	82.76
Dec. 1	Chas. Adie .....	do .....	65.00
1	J. D. Blagden .....	do .....	68.76
1	F. H. Brandenburg .....	do .....	92.83
1	M. H. Bailey .....	do .....	50.00
1	Wayland Bailey .....	do .....	91.93
1	F. R. Beahan .....	do .....	85.00
1	P. J. Bolton .....	do .....	87.82
1	Geo. D. Boutcher .....	do .....	99.83
1	H. B. Boyer .....	do .....	100.00
1	H. R. Boynton .....	do .....	72.76
1	Allen Brill .....	do .....	85.76
1	Ford A. Carpenter .....	do .....	82.76
1	John H. Celery .....	do .....	85.00
1	F. W. Conrad .....	do .....	68.76
1	M. E. Conway .....	do .....	58.80
1	Maurice Connell .....	do .....	103.83
1	Thomas S. Collins .....	do .....	92.83
1	H. H. Curley .....	do .....	72.76
1	W. W. Dent .....	do .....	97.80
1	R. S. Dimmick .....	do .....	60.00
1	S. L. Dosher .....	do .....	87.83
1	E. L. Douglas .....	do .....	82.76
1	S. G. Dufey .....	do .....	73.40
1	S. C. Emery .....	do .....	89.83
1	Joseph P. Fallihee .....	do .....	58.80
1	W. H. Fallon .....	do .....	92.83
1	Jno. Fitzgerald .....	do .....	93.83
1	R. B. Fulton .....	do .....	75.00
1	R. Q. Grant .....	do .....	91.83
1	H. W. Grasse .....	do .....	39.20
1	Fred Z. Gosewisch .....	do .....	89.83
1	Otto B. Hart .....	do .....	60.00
1	H. P. Hardin .....	do .....	82.76
1	R. M. Hardnige .....	do .....	73.82
1	M. L. Hearne .....	do .....	100.00
1	E. C. Hobbs .....	do .....	91.83
1	H. Irvine .....	do .....	82.76
1	N. D. Lane .....	do .....	102.83
1	R. O. Lazenby .....	do .....	68.40
1	William Line .....	do .....	90.83
1	C. W. Ling .....	do .....	82.76
1	John H. McLean .....	do .....	102.83
1	J. H. Melton .....	do .....	88.83
1	F. Newman .....	do .....	100.00
1	William Norrington .....	do .....	89.83
1	L. F. Passailaigue .....	do .....	87.82
1	M. H. Perry .....	do .....	103.83
1	J. C. Pierce .....	do .....	90.00
1	E. M. Ravenscroft .....	do .....	77.82
1	Geo. Reeder .....	do .....	80.00
1	T. R. Ryan .....	do .....	53.80
1	W. A. Shaw .....	do .....	73.40
1	Chas. Stewart .....	do .....	101.83
1	James P. Sherry .....	do .....	89.83
1	J. H. Smith .....	do .....	81.60
1	Geo. W. Scott .....	do .....	72.76
1	C. H. Stuller .....	do .....	101.83
1	L. M. Tarr .....	do .....	91.83
1	Geo. T. Todd .....	do .....	81.60
1	L. A. Welsh .....	do .....	93.83

*Expenditures Department of Agriculture for fiscal year ending June 30, 1893—Cont'd.*

WEATAER BUREAU—GENERAL EXPENSES—SALARIES—Continued.

Date.	Name.	Nature of payment.	Total.
1892.			
Dec. 1	F. T. Williams	Salary for November	\$90.00
1	J. R. Williams	do	103.83
1	H. E. Wilkinson	do	102.88
1	Wm. Bell	do	88.82
1	W. W. Neifert	do	65.00
1	O. T. Stacy	do	75.00
1	A. P. Butler	do	75.00
1	R. O. Williams	Salary for October	40.25
1	J. B. Sloan	do	30.00
1	R. M. Crawford	do	90.00
1	V. E. Muney	Salary for November	30.00
1	H. McP. Baldwin <i>et al.</i>	Salaries for November	101.60
1	Park Morrill <i>et al.</i>	do	381.59
1	W. T. Blythe <i>et al.</i>	do	123.80
1	Jno. Grover <i>et al.</i>	do	110.76
1	D. Fisher <i>et al.</i>	do	153.83
1	Alfred F. Sims <i>et al.</i>	do	170.36
1	C. P. Cronk <i>et al.</i>	do	304.07
1	Wm. Davis <i>et al.</i>	do	157.59
1	J. W. Smith <i>et al.</i>	do	659.64
1	D. Cuthbertson <i>et al.</i>	do	333.60
1	L. N. Jesunofsky <i>et al.</i>	do	162.63
1	John W. Byram <i>et al.</i>	do	156.59
1	I. G. Gardiner <i>et al.</i>	do	117.83
1	L. M. Pindell <i>et al.</i>	do	177.59
1	E. H. Thompson <i>et al.</i>	do	132.03
1	W. B. Stockman <i>et al.</i>	do	433.96
1	G. A. Loveland <i>et al.</i>	do	106.83
1	H. C. Frankenfield <i>et al.</i>	do	432.62
1	P. T. Jenkins <i>et al.</i>	do	590.44
1	H. H. McNally <i>et al.</i>	do	100.00
1	Chas. M. Strong <i>et al.</i>	do	335.19
1	J. J. Gilligan <i>et al.</i>	do	192.69
1	Geo. M. Chappel <i>et al.</i>	do	347.52
1	Edward A. Evans <i>et al.</i>	do	426.52
1	B. H. Bronson <i>et al.</i>	do	211.96
1	D. C. Murphy <i>et al.</i>	do	157.59
1	Peter Wood <i>et al.</i>	do	167.80
1	I. M. Cline <i>et al.</i>	do	427.32
1	Geo. W. Felger <i>et al.</i>	do	148.63
1	R. J. Wyatt <i>et al.</i>	do	169.63
1	Frank Ridgway <i>et al.</i>	do	186.60
1	E. J. Glass <i>et al.</i>	do	107.83
1	Samuel W. Glenn <i>et al.</i>	do	204.96
1	J. M. Sherier <i>et al.</i>	do	260.40
1	E. R. Demain <i>et al.</i>	do	255.03
1	A. J. Mitchell <i>et al.</i>	do	170.52
1	P. Connor <i>et al.</i>	do	333.28
1	W. H. Scholl <i>et al.</i>	do	93.76
1	Henry Pennywitt <i>et al.</i>	do	103.83
1	W. U. Simons <i>et al.</i>	do	164.36
1	F. H. Clarke <i>et al.</i>	do	235.39
1	George E. Franklin <i>et al.</i>	do	122.83
1	Frank Burke <i>et al.</i>	do	285.15
1	Louis Dorman <i>et al.</i>	do	107.76
1	P. McDonough <i>et al.</i>	do	93.40
1	Geo. Hass Hagen <i>et al.</i>	do	113.83
1	W. M. Wilson <i>et al.</i>	do	298.15
1	W. L. Moore <i>et al.</i>	do	416.36
1	J. H. Harmon <i>et al.</i>	do	192.89
1	A. E. Hackett <i>et al.</i>	do	95.76
1	Jas. A. Barry <i>et al.</i>	do	150.36
1	J. B. Marbury <i>et al.</i>	do	328.56
1	B. A. Blundon <i>et al.</i>	do	163.83
1	H. J. Cox <i>et al.</i>	do	161.63
1	R. E. Kerkam <i>et al.</i>	do	453.08
1	E. W. McGann <i>et al.</i>	do	127.80
1	J. W. Bauer <i>et al.</i>	do	697.38
1	A. J. Davis <i>et al.</i>	do	202.60
1	Jas. I. Widmeyer <i>et al.</i>	do	107.60
1	Geo. E. Hunt <i>et al.</i>	do	330.76
1	Julius G. Linsley <i>et al.</i>	do	157.59
1	H. F. Alciatore <i>et al.</i>	do	105.00
1	E. C. Easton <i>et al.</i>	do	107.76
1	L. M. Dey <i>et al.</i>	do	400.36
1	U. G. Mayers <i>et al.</i>	do	248.16
1	O. D. Stewart <i>et al.</i>	do	249.80
1	E. P. Jones <i>et al.</i>	do	179.36
1	B. S. Pague <i>et al.</i>	do	346.92
1	W. M. Edmondson <i>et al.</i>	do	117.83

Expenditures Department of Agriculture for fiscal year ending June 30, 1893—Cont'd.

## WEATHER BUREAU—GENERAL EXPENSES—SALARIES—Continued.

Date.	Name.	Nature of payment.	Total.
1892.			
Dec. 1	C. T. von Hermann <i>et al.</i>	Salaries for November	\$166.63
1	Arthur L. White <i>et al.</i>	do	171.59
1	Thomas Gibson <i>et al.</i>	do	116.83
1	P. H. Smythe <i>et al.</i>	do	170.36
1	Geo. N. Salisbury <i>et al.</i>	do	167.59
1	H. B. Hersey <i>et al.</i>	do	136.83
1	G. H. Willson <i>et al.</i>	do	552.02
1	W. H. Hammon <i>et al.</i>	do	454.28
1	P. F. Lyons <i>et al.</i>	do	265.76
1	B. F. Hough <i>et al.</i>	do	152.43
1	C. L. Bozzell <i>et al.</i>	do	108.83
1	Chas. A. Smith <i>et al.</i>	do	183.58
1	John Craig <i>et al.</i>	do	217.39
1	U. G. Purcell <i>et al.</i>	do	93.82
1	Thomas J. Considine <i>et al.</i>	do	111.76
1	J. E. Lanquette <i>et al.</i>	do	117.83
1	T. B. Jennings <i>et al.</i>	do	118.83
1	E. A. Hanner <i>et al.</i>	do	175.36
1	J. C. Hayden <i>et al.</i>	do	122.76
1	W. E. Butler <i>et al.</i>	do	224.20
1	Fred L. Johnson <i>et al.</i>	do	106.83
1	A. B. Crane <i>et al.</i>	do	303.03
1	J. P. Slaughter <i>et al.</i>	do	133.82
1	H. B. Dick <i>et al.</i>	do	103.40
1	F. J. Walz <i>et al.</i>	do	190.59
1	J. N. Ryker <i>et al.</i>	do	186.63
9	James A. Barwick <i>et al.</i>	do	118.83
9	James H. King	Salary for November	16.00
14	Henrietta H. Fallon	do	52.00
19	Horace T. Price	Services, November	20.00
19	Henrietta H. Fallon	Salary, Dec. 1 to 5	8.00
31	Walter P. Hall	Salary, Aug. 1 to Sept. 22	143.45
31	W. B. Stockman	Salary for December	126.40
31	D. Cuthbertson	do	126.40
31	I. M. Cline	do	126.40
31	L. C. Cover	do	60.60
31	W. S. Miller	Salary from Nov. 1 to 15	46.41
	Total second quarter		81,623.98
1893.			
Jan. 2	Chas. Adie	Salary for December	65.00
2	J. D. Blagden	do	68.76
2	F. H. Brandenburg	do	92.83
2	Wayland Bailey	do	91.83
2	Wm. Bell	do	88.82
2	C. L. Bozzell	do	88.83
2	P. J. Bolton	do	87.82
2	Geo. D. Boutecher	do	99.83
2	H. B. Boyer	do	100.00
2	Allen Buell	do	85.76
2	Ford A. Carpenter	do	82.76
2	R. M. Crawford	do	90.00
2	John H. Clery	do	85.00
2	F. W. Conrad	do	68.76
2	M. E. Conway	do	60.60
2	Maurice Connell	do	103.83
2	Thomas S. Collins	do	92.83
2	H. H. Curley	do	72.76
2	R. S. Dimmick	do	60.00
2	Louis Dorman	do	82.76
2	S. L. Dashér	do	87.83
2	S. G. Duffey	do	75.80
2	S. C. Emery	do	89.83
2	Joseph P. Fallihee	do	60.60
2	John Fitzgerald	do	93.83
2	R. B. Fulton	do	75.00
2	R. Q. Grant	do	91.83
2	Fred G. Gosewich	do	89.83
2	Otto B. Hart	do	60.00
2	H. P. Hardin	do	82.76
2	R. M. Hardnige	do	73.82
2	M. L. Hearne	do	100.00
2	E. C. Hobbs	do	91.83
2	N. D. Lane	do	102.80
2	R. O. Lazzenley	do	70.80
2	William Line	do	90.83
2	C. W. Ling	do	82.76
2	John J. McLean	do	102.83
2	P. McDonough	do	75.80
2	J. H. Melton	do	88.83

Expenditures Department of Agriculture for fiscal year ending June 30, 1893—Cont'd.

## WEATHER BUREAU—GENERAL EXPENSES—SALARIES—Continued.

Date,	Name.	Nature of payment.	Total.
1893.			
Jan. 2	V. E. Muncy	Salary for December	\$30.00
2	F. Newman	do	100.00
2	W. W. Neifert	do	65.00
2	William Norrington	do	89.83
2	L. F. Passailaigne	do	87.83
2	M. H. Perry	do	103.83
2	J. C. Piercy	do	90.00
2	E. M. Ravenscroft	do	77.82
2	Geo. Reeder	do	80.00
2	T. R. Ryan	do	55.60
2	W. A. Shaw	do	75.80
2	Chas. Stewart	do	101.83
2	Eugene E. Spencer	do	60.60
2	J. M. Sherrer	do	84.20
2	James P. Sherry	do	89.83
2	J. H. Smith	do	84.20
2	Geo. W. Scott	do	72.76
2	C. W. Stuller	do	101.83
2	L. M. Tarr	do	91.83
2	Geo. T. Todd	do	84.20
2	L. A. Welsh	do	93.83
2	J. R. Williams	do	103.83
2	H. E. Wilkinson	do	102.83
2	Park Morrill <i>et al.</i>	Salaries for December	387.59
2	W. T. Blythe <i>et al.</i>	do	125.60
2	Jno. Grover <i>et al.</i>	do	110.76
2	D. Fisher <i>et al.</i>	do	153.83
2	Alfred F. Sims <i>et al.</i>	do	172.96
2	C. P. Cronk <i>et al.</i>	do	310.83
2	W. H. Fallon <i>et al.</i>	do	185.66
2	Wm. Davis <i>et al.</i>	do	157.59
2	J. W. Smith <i>et al.</i>	do	794.64
2	E. A. Beais <i>et al.</i>	do	216.80
2	L. N. Jesunofsky <i>et al.</i>	do	164.43
2	John W. Byram <i>et al.</i>	do	156.59
2	I. G. Gardiner <i>et al.</i>	do	117.83
2	L. M. Pindell <i>et al.</i>	do	177.59
2	H. Irvine <i>et al.</i>	do	123.16
2	H. J. Penrod <i>et al.</i>	do	319.76
2	G. A. Loveland <i>et al.</i>	do	106.83
2	H. C. Frankenfield <i>et al.</i>	do	462.58
2	S. S. Bassler <i>et al.</i>	do	472.44
2	H. A. McNally <i>et al.</i>	do	100.00
2	Chas. M. Strong <i>et al.</i>	do	337.79
2	F. J. Walz <i>et al.</i>	do	190.59
2	J. J. Gilligan <i>et al.</i>	do	192.69
2	Geo. M. Chappel <i>et al.</i>	do	353.52
2	Edward A. Evans <i>et al.</i>	do	435.52
2	B. H. Bronson <i>et al.</i>	do	216.16
2	D. C. Murphy <i>et al.</i>	do	157.59
2	Peter Wood <i>et al.</i>	do	171.10
2	I. M. Cline <i>et al.</i>	do	308.72
2	Geo. W. Felger <i>et al.</i>	do	150.43
2	H. B. Dick <i>et al.</i>	do	105.80
2	R. J. Hyatt <i>et al.</i>	do	171.43
2	Frank Ridgway <i>et al.</i>	do	191.70
2	E. J. Glass <i>et al.</i>	do	107.83
2	Samuel W. Glenn <i>et al.</i>	do	209.16
2	E. R. Demain <i>et al.</i>	do	198.63
2	A. J. Mitchell <i>et al.</i>	do	170.52
2	P. Connor <i>et al.</i>	do	333.28
2	W. H. Scholl <i>et al.</i>	do	93.76
2	W. U. Simons <i>et al.</i>	do	166.96
2	F. H. Clark <i>et al.</i>	do	176.59
2	George E. Franklin <i>et al.</i>	do	122.83
2	Frank Burk <i>et al.</i>	do	286.95
2	J. N. Ryker <i>et al.</i>	do	183.43
2	Geo. Hass Hagen <i>et al.</i>	do	113.83
2	W. M. Wilson <i>et al.</i>	do	217.19
2	W. L. Moore <i>et al.</i>	do	424.96
2	J. H. Harmon <i>et al.</i>	do	196.10
2	A. E. Hackett <i>et al.</i>	do	95.76
2	Jas. A. Barry <i>et al.</i>	do	152.96
2	J. B. Marbury <i>et al.</i>	do	336.36
2	B. A. Blundon <i>et al.</i>	do	163.83
2	A. J. Cox <i>et al.</i>	do	163.43
2	R. E. Kerkam <i>et al.</i>	do	459.88
2	E. W. McGann <i>et al.</i>	do	131.10
2	E. B. Dunn <i>et al.</i>	do	646.98
2	A. B. Crane <i>et al.</i>	do	205.40

Expenditures Department of Agriculture for fiscal year ending June 30, 1893—Cont'd.

## WEATHER BUREAU—GENERAL EXPENSES—SALARIES—Continued.

Date.	Name.	Nature of payment.	Total.
1893.			
Jan. 2	Jas. L. Widmeyer <i>et al.</i>	Salaries for December.....	\$111.20
2	Geo. E. Hunt <i>et al.</i>	do.....	276.16
2	Julius G. Linsley <i>et al.</i>	do.....	157.59
2	H. F. Alciatore <i>et al.</i>	do.....	105.00
2	W. W. Dent <i>et al.</i>	do.....	161.70
2	E. C. Easton <i>et al.</i>	do.....	107.76
2	L. M. Dey <i>et al.</i>	do.....	408.96
2	U. G. Myers <i>et al.</i>	do.....	236.75
2	O. D. Stewart <i>et al.</i>	do.....	257.60
2	E. P. Jones <i>et al.</i>	do.....	181.96
2	B. S. Pague <i>et al.</i>	do.....	352.32
2	W. M. Edmondson <i>et al.</i>	do.....	117.83
2	C. F. von Herrmann <i>et al.</i>	do.....	168.43
2	Arthur L. White <i>et al.</i>	do.....	171.59
2	Thos. Gibson <i>et al.</i>	do.....	116.83
2	P. H. Smyth <i>et al.</i>	do.....	172.96
2	James A. Barwick <i>et al.</i>	do.....	118.83
2	P. T. Jenkins <i>et al.</i>	do.....	683.52
2	W. H. Hammon <i>et al.</i>	do.....	460.28
2	P. F. Lyons <i>et al.</i>	do.....	271.76
2	B. F. Hough <i>et al.</i>	do.....	154.53
2	Chas. A. Smith <i>et al.</i>	do.....	183.58
2	John Craig <i>et al.</i>	do.....	219.19
2	U. G. Pursell <i>et al.</i>	do.....	93.82
2	Thomas J. Considine <i>et al.</i>	do.....	111.76
2	J. E. Lanonette <i>et al.</i>	do.....	178.43
2	T. B. Jennings <i>et al.</i>	do.....	118.83
2	E. A. Hammer <i>et al.</i>	do.....	177.96
2	J. C. Hayden <i>et al.</i>	do.....	122.76
2	W. E. Butler <i>et al.</i>	do.....	252.56
2	Fred L. Johnson <i>et al.</i>	do.....	106.83
2	A. J. Davis <i>et al.</i>	do.....	310.03
2	J. P. Slaughter <i>et al.</i>	do.....	133.82
2	C. F. R. Wappenhaus <i>et al.</i>	do.....	307.00
2	Geo. N. Salisbury <i>et al.</i>	do.....	167.59
2	M. H. Bailey	Salary for December.....	50.00
2	F. R. Brahan	do.....	85.00
2	F. T. Williams	do.....	90.00
2	Henry Pennywitt <i>et al.</i>	Salaries for December.....	103.03
2	H. McP. Baldwin	Salary for December.....	84.20
2	H. B. Hersey <i>et al.</i>	Salaries for December.....	152.43
2	Gilbert B. Borden	Salary, July 1 to Sept. 15.....	22.26
2	R. McLean Barry	Salary, Dec. 10 to 31.....	43.04
2	E. L. Douglas	Salary for December.....	82.76
2	F. P. Holt	do.....	60.60
4	H. R. Boynton	do.....	72.76
4	P. H. Mell	Salary from Dec. 27 to 31.....	12.23
12	Charles Mathews	Salary from Dec. 11 to 21.....	22.00
12	Ralph L. Shay	Salary from Dec. 14 to 31.....	11.61
12	I. F. Jesuonofsky	Salary from Dec. 23 to 31.....	16.00
17	R. A. McDonald	Salary from Dec. 7 to 31.....	24.19
21	C. N. Thompson	Salary from Dec. 16 to 31.....	24.00
21	Horace T. Price	Salary for Dec.....	20.00
21	A. P. Butler	do.....	75.00
23	Joseph Blechele, jr	Salary for January.....	13.33
23	H. W. Grasse	Salary from Dec. 16 to 31.....	40.40
26	A. L. Hatch	Salary from Jan. 12 to 27.....	10.00
28	B. S. Myers	Salary for January.....	32.00
31	W. B. Stockman	do.....	129.20
31	H. C. Frankenfield	do.....	129.20
31	D. Cuthbertson	do.....	129.20
31	R. S. Manger	Salary from Jan. 23 to 31.....	18.00
Feb. 1	Park Morrill <i>et al.</i>	Salaries for January.....	391.79
1	W. T. Blythe <i>et al.</i>	do.....	126.80
1	John Grover <i>et al.</i>	do.....	110.76
1	D. Fisher <i>et al.</i>	do.....	153.83
1	Alfred F. Sims <i>et al.</i>	do.....	174.86
1	C. P. Cronk <i>et al.</i>	do.....	315.16
1	W. H. Fallon <i>et al.</i>	do.....	185.66
1	Wm. Davis <i>et al.</i>	do.....	157.59
1	H. H. Clayton <i>et al.</i>	do.....	674.34
1	Edward A. Beals <i>et al.</i>	do.....	251.82
1	John W. Byram <i>et al.</i>	do.....	156.59
1	I. G. Gardiner <i>et al.</i>	do.....	117.83
1	L. M. Pindell <i>et al.</i>	do.....	177.59
1	H. Irvine <i>et al.</i>	do.....	124.06
1	H. J. Penrod <i>et al.</i>	do.....	352.82
1	G. A. Loveland <i>et al.</i>	do.....	106.83
1	E. H. Emery <i>et al.</i>	do.....	399.58
1	S. S. Bassler <i>et al.</i>	do.....	475.24

Expenditures Department of Agriculture for fiscal year ending June 30, 1893—Cont'd

## WEATHER BUREAU—GENERAL EXPENSES—SALARIES—Continued.

Date.	Name.	Nature of payment.	Total.
1893.			
Feb. 1	H. A. McNally <i>et al.</i>	Salaries for January.	\$100.00
1	Chas. M. Strong <i>et al.</i>	do	339.69
1	F. J. Walz <i>et al.</i>	do	190.59
1	J. J. Gilligan <i>et al.</i>	do	254.69
1	Geo. M. Chappel <i>et al.</i>	do	357.72
1	Edward A. Evans <i>et al.</i>	do	372.56
1	B. H. Bronson <i>et al.</i>	do	228.96
1	D. C. Murphy <i>et al.</i>	do	157.59
1	Peter Wood <i>et al.</i>	do	173.30
1	I. M. Cline <i>et al.</i>	do	419.96
1	W. E. Butler <i>et al.</i>	do	173.10
1	Frank Ridgway <i>et al.</i>	do	195.30
1	E. J. Glass <i>et al.</i>	do	107.83
1	Samuel W. Glenn <i>et al.</i>	do	211.96
1	C. F. R. Wappenhause <i>et al.</i>	do	311.20
1	E. R. Demain <i>et al.</i>	do	200.13
1	A. J. Mitchell <i>et al.</i>	do	170.52
1	P. Connor <i>et al.</i>	do	346.58
1	Henry Pennywitt <i>et al.</i>	do	103.83
1	W. U. Simons <i>et al.</i>	do	168.86
1	F. H. Clark <i>et al.</i>	do	212.96
1	George E. Franklin <i>et al.</i>	do	122.83
1	Frank Burk <i>et al.</i>	do	328.72
1	J. N. Ryker <i>et al.</i>	do	184.83
1	Geo. Hass Hagen <i>et al.</i>	do	113.83
1	W. M. Wilson <i>et al.</i>	do	218.59
1	W. L. Moore <i>et al.</i>	do	431.06
1	J. H. Harmon <i>et al.</i>	do	198.30
1	A. E. Hackett <i>et al.</i>	do	95.76
1	Jas. A. Barry <i>et al.</i>	do	154.86
1	J. B. Marbury <i>et al.</i>	do	341.96
1	H. J. Cox <i>et al.</i>	do	164.83
1	R. E. Kerkam.	do	464.58
1	E. W. McCann <i>et al.</i>	do	133.30
1	E. B. Dunn <i>et al.</i>	do	652.68
1	A. B. Crane <i>et al.</i>	do	210.10
1	Jas. I. Widmeyer <i>et al.</i>	do	113.60
1	Geo. E. Hunt <i>et al.</i>	do	278.96
1	Julius G. Linsley <i>et al.</i>	do	157.59
1	H. F. Alciatore <i>et al.</i>	do	105.00
1	W. W. Dent <i>et al.</i>	do	165.30
1	E. C. Easton <i>et al.</i>	do	107.76
1	L. M. Dey <i>et al.</i>	do	414.86
1	U. G. Myers <i>et al.</i>	do	255.86
1	O. D. Stewart <i>et al.</i>	do	263.20
1	E. P. Jones <i>et al.</i>	do	183.86
1	B. S. Pague <i>et al.</i>	do	326.02
1	W. M. Edmondson <i>et al.</i>	do	117.83
1	C. F. von Herrmann <i>et al.</i>	do	169.83
1	Arthur L. White <i>et al.</i>	do	129.13
1	Thos. Gibson <i>et al.</i>	do	116.83
1	P. H. Smyth <i>et al.</i>	do	174.86
1	James A. Barwick <i>et al.</i>	do	118.83
1	Geo. N. Salisbury	do	167.59
1	H. B. Hersey <i>et al.</i>	do	153.83
1	P. T. Jenkins <i>et al.</i>	do	690.32
1	W. H. Hammon	do	464.48
1	E. C. Thompson	do	215.52
1	B. F. Hough <i>et al.</i>	do	156.03
1	Chas. A. Smith <i>et al.</i>	do	183.58
1	John Craig <i>et al.</i>	do	220.59
1	B. A. Blundon <i>et al.</i>	do	163.83
1	U. G. Pursell <i>et al.</i>	do	93.82
1	Thomas J. Considine <i>et al.</i>	do	111.76
1	J. E. Lanonette <i>et al.</i>	do	179.83
1	T. B. Jennings <i>et al.</i>	do	118.83
1	E. A. Harmer <i>et al.</i>	do	179.86
1	J. C. Hayden	do	122.76
1	R. J. Hyatt <i>et al.</i>	do	298.96
1	Fred L. Johnson <i>et al.</i>	do	106.83
1	A. J. Davis <i>et al.</i>	do	312.83
1	J. P. Slaughter <i>et al.</i>	do	133.82
1	Geo. W. Feiger <i>et al.</i>	do	151.83
1	A. Ashenberger	Salary for January	82.76
1	Chas. Adie	do	65.00
1	F. H. Brandenburg	do	92.83
1	M. H. Bailey	do	50.00
1	Wayland Bailey	do	91.83
1	H. McP. Baldwin	do	86.10

Expenditures Department of Agriculture for fiscal year ending June 30, 1893—Cont'd.

## WEATHER BUREAU—GENERAL EXPENSES—SALARIES—Continued.

Date.	Name.	Nature of payment.	Total.
1893.			
Feb. 1	F. R. Beahan	Salary for January	\$85.00
1	Wm. Bell	do	88.82
1	C. L. Bozzell	do	88.83
1	P. J. Bolton	do	87.82
1	Geo. D. Butcher	do	99.83
1	H. B. Boyer	do	72.76
1	H. R. Boynton	do	100.00
1	Allen Buell	do	85.76
1	Ford A. Carpenter	do	82.76
1	R. M. Crawford	do	90.00
1	John H. Cleary	do	85.00
1	F. W. Conrad	do	68.76
1	M. E. Conway	do	62.00
1	Maurice Connell	do	103.83
1	Thomas S. Collins	do	92.83
1	H. H. Curley	do	72.76
1	R. S. Dimmick	do	60.00
1	Louis Dorman	do	82.76
1	S. L. Dosher	do	87.83
1	E. L. Douglas	do	82.76
1	S. G. Duffey	do	77.50
1	S. C. Emery	do	89.83
1	Jos. P. Fallinée	do	62.00
1	Jno. Fitzgerald	do	93.83
1	R. B. Fulton	do	75.00
1	R. Q. Grant	do	91.83
1	H. W. Grasse	do	41.30
1	Fred Z. Gosewich	do	89.83
1	Otto. B. Hart	do	60.00
1	H. P. Hardin	do	82.76
1	R. M. Hardinge	do	73.82
1	M. L. Hearne	do	100.00
1	E. C. Hobbs	do	91.83
1	L. N. Jesunofsky	do	103.83
1	N. D. Lane	do	102.83
1	R. O. Lazenby	do	72.30
1	William Line	do	90.83
1	C. W. Ling	do	82.76
1	P. McDonough	do	77.50
1	John J. McLean	do	102.83
1	J. H. Malton	do	83.83
1	C. E. Muncy	do	30.00
1	Fred Myers	Salary from Jan. 12 to 31	40.00
1	W. W. Neifert	Salary for January	65.00
1	William Norrington	do	89.83
1	L. F. Passalaigue	do	87.82
1	J. C. Piercy	do	90.00
1	E. M. Ravenscroft	do	77.82
1	T. R. Ryan	do	56.80
1	W. A. Shaw	do	77.50
1	Chas. Stewart	do	101.83
1	J. M. Sherier	do	86.10
1	James P. Sherry	do	89.83
1	J. H. Smith	do	83.10
1	Geo. W. Scott	do	72.76
1	Benj. R. Stewart	do	72.30
1	C. H. Stuller	do	101.83
1	L. M. Tarr	do	91.83
1	Geo. T. Todd	do	86.10
1	L. A. Welsh	do	93.83
1	F. T. Williams	do	90.00
1	J. R. Williams	do	103.83
1	H. E. Wilkinson	do	102.83
1	F. Newman	do	100.00
1	P. H. Mell	do	77.50
1	R. A. Macdonald	do	30.00
3	L. F. Jesunofsky	Salary from Jan. 2 to 27	46.00
4	Ralph L. Shay	Salary for January	20.00
4	P. F. Lyons	do	129.20
7	W. H. Scholl <i>et al.</i>	Salaries for January	93.76
7	C. N. Thompson	Services, Jan. 1 to 11, and 17 to 26	31.50
7	Geo. Reeder	Services for January	80.00
7	J. D. Blagden	do	68.76
10	G. W. Pancost	Salary from January 14 to 31	36.00
10	H. B. Dick <i>et al.</i>	Salaries for January	107.30
10	G. E. Lewis	Salary from Jan. 16 to 31	10.00
16	Horace T. Price	Salary for January	20.00
16	H. Flegel	do	15.00
25	M. O. Conner	Salary from Feb. 7 to 18	20.00

*Expenditures Department of Agriculture for fiscal year ending June 30, 1893—Cont'd.*

WEATHER BUREAU—GENERAL EXPENSES—SALARIES—Continued.

Date.	Name.	Nature of payment.	Total.
1893.			
Feb. 28	E. L. Douglas	Salary for February	\$82.76
28	W. W. Neifert	do	65.00
28	P. F. Lyons	do	116.60
28	Geo. M. Chappel	do	116.60
28	H. C. Frankenfield	do	116.60
28	Orlof T. Brown	Salary from Jan. 31 to Feb. 28	58.00
Mar. 1	Chas. Adie	Salary for February	65.00
1	J. D. Bladgen	do	68.76
1	F. H. Bradenburg	do	92.83
1	A. Ashenberger	do	82.76
1	Wayland Bailey	do	91.83
1	W. L. Moore	do	116.60
1	H. McP. Baldwin	do	77.80
1	F. R. Beahan	do	85.00
1	Wm. Bell	do	88.82
1	C. L. Bozzell	do	88.83
1	P. J. Bolton	do	87.82
1	Geo. D. Boucher	do	99.83
1	H. B. Boyer	do	100.00
1	Allen Buell	do	85.76
1	Ford A. Carpenter	do	82.76
1	R. M. Crawford	do	90.00
1	John H. Clery	do	85.00
1	F. W. Conrad	do	68.76
1	M. E. Conway	do	56.00
1	Maurice Connell	do	103.83
1	Thomas S. Collins	do	92.83
1	H. H. Curley	do	72.76
1	R. S. Diminick	do	60.00
1	Louis Dorman	do	82.76
1	S. L. Dosher	do	87.83
1	S. G. Duffey	do	70.00
1	S. C. Emery	do	89.83
1	Weston M. Fulton	do	56.00
1	R. Q. Grant	do	91.83
1	H. W. Grasse	do	37.40
1	Fred Z. Gozewick	do	89.83
1	Otto B. Hart	do	60.00
1	H. P. Hardin	do	82.76
1	R. M. Hardinge	do	73.82
1	M. L. Hearne	do	100.00
1	E. C. Hobbs	do	91.83
1	N. D. Lane	do	102.83
1	R. O. Lozenby	do	65.40
1	William Lina	do	90.83
1	C. W. Ling	do	82.76
1	John J. McLean	do	102.83
1	P. McDonough	do	70.00
1	P. H. Mell	do	70.00
1	J. H. Melton	do	88.83
1	V. E. Muncy	do	30.00
1	F. Newman	do	100.00
1	Wm. Norrington	do	89.83
1	L. F. Passailaigue	do	87.82
1	J. C. Piercy	do	90.00
1	E. M. Ravenscraft	do	77.82
1	Geo. Reeder	do	80.00
1	T. R. Ryon	do	51.40
1	W. A. Shaw	do	70.00
1	Chas. Stewart	do	101.83
1	J. M. Sherier	do	77.80
1	James P. Sherry	do	89.83
1	J. H. Smith	do	77.80
1	Geo. W. Scott	do	72.76
1	Benj. R. Stuart	do	65.40
1	C. H. Stuller	do	101.83
1	L. M. Tarr	do	91.83
1	Geo. T. Todd	do	77.80
1	L. A. Welsh	do	93.83
1	F. T. Williams	do	90.00
1	J. R. Williams	do	103.83
1	H. E. Wilkinson	do	102.83
1	H. Irvine	Salary from Feb. 1 to 15	44.34
1	W. H. Bailey	Salary for February	50.00
1	Jos. P. Fallinell	do	56.00
1	Wm. Burrows	do	82.76
1	O. T. Stacy	Salary from Dec. 1 to 29, 1892	70.16
1	E. A. Evans <i>et al</i>	Salaries for February	402.16
1	Park Morrill <i>et al</i>	do	373.19

Expenditures Department of Agriculture for fiscal year ending June 30, 1893—Cont'd.

## WEATHER BUREAU—GENERAL EXPENSES—SALARIES—Continued.

Date.	Name.	Nature of payment.	Total.
1893.			
Mar. 1	W. T. Blythe <i>et al.</i>	Salaries for February .....	\$121.40
1	Jno. Grover <i>et al.</i>	do .....	110.76
1	D. Fisher <i>et al.</i>	do .....	153.83
1	Alfred F. Sims <i>et al.</i>	do .....	166.56
1	C. P. Cronk <i>et al.</i>	do .....	295.96
1	Wm. Davis <i>et al.</i>	do .....	157.59
1	W. H. Fallon <i>et al.</i>	do .....	185.66
1	J. Warren Smith <i>et al.</i>	do .....	647.44
1	D. Cuthbertson <i>et al.</i>	do .....	358.60
1	L. N. Jesunofsky <i>et al.</i>	do .....	159.83
1	Jno. W. Bryan <i>et al.</i>	do .....	156.59
1	I. G. Gardiner <i>et al.</i>	do .....	117.83
1	L. M. Pindell <i>et al.</i>	do .....	177.59
1	H. Irvine <i>et al.</i>	do .....	37.40
1	W. B. Stockman <i>et al.</i>	do .....	448.52
1	G. A. Loveland <i>et al.</i>	do .....	106.83
1	E. H. Emery <i>et al.</i>	do .....	392.58
1	S. S. Bassier <i>et al.</i>	do .....	462.64
1	H. A. McNally <i>et al.</i>	do .....	100.00
1	Chas. M. Strong <i>et al.</i>	do .....	331.39
1	F. J. Walz <i>et al.</i>	do .....	190.59
1	J. J. Gilligan <i>et al.</i>	do .....	248.69
1	J. S. Hazen <i>et al.</i>	do .....	222.52
1	B. H. Bronson <i>et al.</i>	do .....	211.36
1	A. J. Davis <i>et al.</i>	do .....	300.83
1	Peter Wood <i>et al.</i>	do .....	163.40
1	I. M. Cline <i>et al.</i>	do .....	333.36
1	Geo. W. Felger <i>et al.</i>	do .....	145.83
1	H. B. Dick <i>et al.</i>	do .....	100.00
1	Frank Ridgway <i>et al.</i>	do .....	179.40
1	W. E. Butler <i>et al.</i>	do .....	158.80
1	E. J. Glass <i>et al.</i>	do .....	143.83
1	Samuel G. Glenn <i>et al.</i>	do .....	199.36
1	C. F. R. Wappenhaus <i>et al.</i>	do .....	292.60
1	E. R. De Bain <i>et al.</i>	do .....	193.23
1	A. J. Mitchell <i>et al.</i>	do .....	170.52
1	P. Conner <i>et al.</i>	do .....	336.68
1	W. H. Scholl <i>et al.</i>	do .....	93.76
1	Henry Pennywitt <i>et al.</i>	do .....	103.83
1	W. U. Simons <i>et al.</i>	do .....	254.39
1	F. H. Clarke <i>et al.</i>	do .....	256.36
1	Geo. E. Franklin <i>et al.</i>	do .....	122.83
1	Frank Burke <i>et al.</i>	do .....	310.12
1	J. N. Ryker <i>et al.</i>	do .....	178.83
1	Geo. Hass Hagan <i>et al.</i>	do .....	113.83
1	W. M. Wilson <i>et al.</i>	do .....	242.59
1	W. L. Moore <i>et al.</i>	do .....	287.56
1	J. H. Harmon <i>et al.</i>	do .....	196.20
1	A. E. Hacket <i>et al.</i>	do .....	95.76
1	Jas. H. Barry <i>et al.</i>	do .....	146.56
1	J. B. Marbury <i>et al.</i>	do .....	261.36
1	B. A. Blundon <i>et al.</i>	do .....	163.83
1	H. J. Cox <i>et al.</i>	do .....	158.83
1	R. E. Kerkam <i>et al.</i>	do .....	443.68
1	E. W. McGann <i>et al.</i>	do .....	123.40
1	E. B. Dunn <i>et al.</i>	do .....	627.18
1	A. B. Crane <i>et al.</i>	do .....	189.80
1	Jas. I. Widmeyer <i>et al.</i>	do .....	102.80
1	Geo. E. Hunt <i>et al.</i>	do .....	266.36
1	Julius G. Linsley <i>et al.</i>	do .....	157.59
1	H. F. Alciatore <i>et al.</i>	do .....	105.00
1	W. W. Dent <i>et al.</i>	do .....	149.40
1	E. C. Easton <i>et al.</i>	do .....	107.76
1	L. M. Day <i>et al.</i>	do .....	388.56
1	O. D. Stewart <i>et al.</i>	do .....	238.60
1	E. P. Jones <i>et al.</i>	do .....	231.56
1	B. S. Pague <i>et al.</i>	do .....	309.60
1	W. M. Edmonson	do .....	117.83
1	C. F. von Hermann <i>et al.</i>	do .....	163.83
1	Arthur L. White <i>et al.</i>	do .....	125.23
1	Thomas Gibson <i>et al.</i>	do .....	116.83
1	P. H. Smith <i>et al.</i>	do .....	166.56
1	James A. Barwick <i>et al.</i>	do .....	128.83
1	G. A. Salisbury <i>et al.</i>	do .....	167.59
1	H. B. Hersey <i>et al.</i>	do .....	147.83
1	P. H. Jenkins <i>et al.</i>	do .....	577.86
1	W. H. Hammon <i>et al.</i>	do .....	518.64
1	B. F. Hough <i>et al.</i>	do .....	149.43
1	Chas. A. Smith <i>et al.</i>	do .....	183.58

*Expenditures Department of Agriculture for fiscal year ending June 30, 1893—Cont'd.*

WEATHER BUREAU—GENERAL EXPENSES—SALARIES—Continued.

Date.	Name.	Nature of payment.	Total.
1893.			
Mar. 1	John Craig <i>et al.</i>	Salaries for February	\$214.59
1	U. G. Purssell <i>et al.</i>	do	98.82
1	Thomas J. Considine <i>et al.</i>	do	111.76
1	J. E. Lanionette <i>et al.</i>	do	173.83
1	F. B. Jennings <i>et al.</i>	do	118.83
1	E. B. Hanner <i>et al.</i>	do	171.56
1	J. C. Hayden <i>et al.</i>	do	122.76
1	R. J. Hyatt <i>et al.</i>	do	280.36
1	Fred L. Johnson <i>et al.</i>	do	106.83
1	J. P. Slaughter <i>et al.</i>	do	133.82
1	E. C. Thompson <i>et al.</i>	do	209.52
3	J. W. Marbury	Salary from Feb. 13 to 20	14.00
13	Geo. E. Lewis	Salary for February	20.00
13	Otis Reisinger	Salary from Feb. 20 to 28	18.00
13	U. G. Meyers <i>et al.</i>	Salaries for February	241.56
14	D. C. Murphy <i>et al.</i>	do	157.59
17	Alice Wright	Salary from Mar. 5 to 7	5.00
17	Geo. P. Smellman	Salary from Feb. 21 to Mar. 8	32.00
23	A. B. Sanborn	Salary from Feb. 18 to 28	22.00
25	Lyman R. Hinsdill	Salary from Mar. 2 to 14	22.00
31	Geo. M. Chappel	Salary in March	129.20
31	P. F. Lyons	do	129.20
31	Otis Reisinger	do	62.00
	Total third quarter		81,291.83
Apr. 1	W. W. Neifert	Salary for March	72.30
1	Jno. N. Clery	do	85.00
1	R. G. Allen	do	86.10
1	H. B. Boyer	do	100.00
1	Frank Erwin	do	17.42
1	A. Ashenberger	do	82.76
1	Chas. Adie	do	65.00
1	J. D. Bagden	do	68.76
1	M. H. Bailey	do	50.00
1	H. McP. Baldwin	do	86.10
1	F. H. Bradenberry	do	92.83
1	Wayland Bailey	do	91.83
1	F. R. Beahan	do	85.00
1	Wm. Bell	do	88.82
1	C. L. Bozzell	do	88.83
1	P. J. Bolton	do	87.82
1	Geo. D. Boucher	do	99.83
1	H. R. Boynton	do	72.76
1	Allen Buell	do	85.76
1	Jno. W. Byram	do	87.83
1	Ford A. Carpenter	do	82.76
1	R. M. Crawford	do	90.00
1	F. W. Conrad	do	68.76
1	M. E. Conway	do	62.00
1	Maurice Connell	do	103.83
1	Thomas S. Collins	do	92.83
1	H. H. Curley	do	72.76
1	A. J. Davis	do	85.00
1	R. S. Dimmick	do	60.00
1	Louis Dorman	do	82.76
1	S. L. Dosher	do	87.83
1	E. L. Douglas	do	82.76
1	S. C. Emery	do	89.83
1	Jos. P. Fallihel	do	62.00
1	John Fitzgerald	do	98.83
1	R. Q. Grant	do	91.83
1	H. W. Grassee	do	41.30
1	Fred. Z. Gosewisch	do	89.83
1	Otto B. Hart	do	60.00
1	H. P. Hardin	do	82.76
1	R. M. Hardinge	do	86.10
1	J. H. Harmon	do	103.30
1	M. L. Hearne	do	100.00
1	E. C. Hobbs	do	91.83
1	N. D. Lane	do	102.83
1	R. O. Lazenby	do	72.30
1	William Line	do	90.83
1	C. W. Ling	do	83.76
1	P. McDonough	do	77.50
1	John J. McLean	do	102.83
1	P. H. Mell	do	77.50
1	J. H. Melton	do	88.83
1	V. E. Muncy	do	30.00

Expenditures Department of Agriculture for fiscal year ending June 30, 1893—Cont'd.

## WEATHER BUREAU—GENERAL EXPENSES—SALARIES—Continued.

Date.	Name.	Nature of payment.	Total.
1893.			
Apr. 1	F. Newman	Salary for March	\$100.00
1	William Norrington	do	89.83
1	L. F. Passailaque	do	87.82
1	J. C. Piercy	do	90.00
1	E. M. Ravenscroft	do	77.82
1	George Reeder	do	80.00
1	Chas. Stewart	do	101.83
1	James P. Sherry	do	89.83
1	J. H. Smith	do	86.10
1	George W. Scott	do	72.76
1	Benjamin R. Stuart	do	72.30
1	C. B. Stuller	do	101.83
1	L. M. Tarr	do	91.83
1	George T. Todd	do	86.10
1	L. A. Welsh	do	93.83
1	J. R. Williams	do	103.83
1	R. O. Williams	do	41.30
1	G. H. Willson	do	102.83
1	Park Morrill <i>et al.</i>	Salaries for March	391.79
1	J. W. Bauer <i>et al.</i>	do	158.63
1	D. Fisher <i>et al.</i>	do	153.83
1	Alfred F. Sims <i>et al.</i>	do	174.86
1	C. P. Cronk <i>et al.</i>	do	315.16
1	W. H. Fallon <i>et al.</i>	do	185.66
1	William Davis <i>et al.</i>	do	157.59
1	J. Warren Smith <i>et al.</i>	do	691.68
1	David Cuthbertson <i>et al.</i>	do	313.20
1	L. A. Jesunofsky <i>et al.</i>	do	165.83
1	E. H. Emery <i>et al.</i>	do	156.58
1	I. G. Gardiner <i>et al.</i>	do	117.83
1	L. M. Pindell <i>et al.</i>	do	177.59
1	W. B. Stockman <i>et al.</i>	do	270.26
1	G. A. Loveland <i>et al.</i>	do	106.83
1	H. C. Frankenfield <i>et al.</i>	do	523.46
1	S. S. Bassler <i>et al.</i>	do	475.24
1	H. A. McNally <i>et al.</i>	do	100.00
1	Chas. M. Strong <i>et al.</i>	do	336.69
1	F. J. Walz <i>et al.</i>	do	190.59
1	J. J. Gilligan <i>et al.</i>	do	254.69
1	J. S. Hazen <i>et al.</i>	do	245.86
1	B. H. Bronson <i>et al.</i>	do	223.96
1	D. C. Murphy <i>et al.</i>	do	157.59
1	Peter Wood <i>et al.</i>	do	173.30
1	I. M. Cline <i>et al.</i>	do	357.96
1	Geo. W. Felger <i>et al.</i>	do	151.83
1	H. B. Dick <i>et al.</i>	do	107.30
1	W. E. Butler <i>et al.</i>	do	173.10
1	R. L. Anderson	Salary for Mar. 16 to 31	26.67
1	Frank Ridgway <i>et al.</i>	Salaries for March	195.30
1	E. J. Glass <i>et al.</i>	do	149.83
1	Samuel G. Glenn <i>et al.</i>	do	231.96
1	C. F. R. Wappenhaus <i>et al.</i>	do	311.20
1	E. R. Demain <i>et al.</i>	do	200.13
1	A. J. Mitchell <i>et al.</i>	do	170.52
1	P. Connor <i>et al.</i>	do	346.58
1	W. H. Scholl <i>et al.</i>	do	93.76
1	Henry Pennywitt <i>et al.</i>	do	103.83
1	W. N. Simons <i>et al.</i>	do	168.86
1	F. H. Clarke <i>et al.</i>	do	274.96
1	George E. Franklin <i>et al.</i>	do	122.83
1	Frank Burke <i>et al.</i>	do	328.72
1	J. N. Ryker <i>et al.</i>	do	184.83
1	Geo. Hass Hagan <i>et al.</i>	do	113.83
1	W. M. Wilson <i>et al.</i>	do	248.59
1	W. L. Moore <i>et al.</i>	do	431.06
1	E. A. Beals <i>et al.</i>	do	183.60
1	A. E. Hackett <i>et al.</i>	do	111.10
1	Jas. A. Barry <i>et al.</i>	do	154.86
1	J. B. Marbury <i>et al.</i>	do	279.96
1	B. A. Blunder <i>et al.</i>	do	176.13
1	H. J. Cox <i>et al.</i>	do	164.83
1	R. E. Kerkam <i>et al.</i>	do	464.58
1	E. W. McGann <i>et al.</i>	do	133.30
1	E. B. Dunn <i>et al.</i>	do	564.65
1	A. B. Crane <i>et al.</i>	do	124.00
1	James I. Widmeyer <i>et al.</i>	do	113.60
1	Geo. Hunt <i>et al.</i>	do	278.96
1	Julius G. Linsley <i>et al.</i>	do	157.59
1	H. F. Alciatore <i>et al.</i>	do	105.00

Expenditures Department of Agriculture for fiscal year ending June 30, 1893—Cont'd.

## WEATHER BUREAU—GENERAL EXPENSES—SALARIES—Continued.

Date.	Name.	Nature of payment.	Total.
1893.			
Apr. 1	W. W. Dent <i>et al.</i>	Salaries for March.	\$165.30
1	E. C. Easton <i>et al.</i>	do	107.76
1	L. M. Day <i>et al.</i>	do	426.82
1	U. G. Meyers <i>et al.</i>	do	255.86
1	O. D. Stewart <i>et al.</i>	do	263.20
1	E. P. Jones <i>et al.</i>	do	245.86
1	B. S. Pague <i>et al.</i>	do	342.70
1	W. M. Edmonston <i>et al.</i>	do	117.83
1	C. F. von Herrmann <i>et al.</i>	do	169.83
1	Arthur L. White <i>et al.</i>	do	129.13
1	Thomas Gibson <i>et al.</i>	do	116.83
1	P. H. Smyth <i>et al.</i>	do	162.90
1	James A. Barwick <i>et al.</i>	do	128.83
1	Geo. N. Salisbury <i>et al.</i>	do	167.59
1	H. B. Hersey <i>et al.</i>	do	153.83
1	P. T. Jenkins <i>et al.</i>	do	649.49
1	W. H. Hammomn <i>et al.</i>	do	464.48
1	E. C. Thompson <i>et al.</i>	do	215.52
1	B. F. Hough <i>et al.</i>	do	156.83
1	Chas. A. Smith <i>et al.</i>	do	183.58
1	John Craig <i>et al.</i>	do	220.59
1	U. G. Purssell <i>et al.</i>	do	93.82
1	Thomas J. Considine <i>et al.</i>	do	111.76
1	J. E. Lanquette <i>et al.</i>	do	179.83
1	F. B. Jennings <i>et al.</i>	do	118.83
1	E. A. Hanner <i>et al.</i>	do	179.86
1	Wm. Burrows <i>et al.</i>	do	122.76
1	R. J. Hyatt <i>et al.</i>	do	360.96
1	Fred L. Johnson <i>et al.</i>	do	106.83
1	F. P. Chaffee <i>et al.</i>	do	227.83
1	J. P. Slaughter <i>et al.</i>	do	133.82
1	John Grover <i>et al.</i>	do	110.76
1	Edward H. Evans <i>et al.</i>	Salaries for March.	434.56
4	W. T. Blythe	Salary from Mar. 1 to 13 and 22 to 31	51.94
4	F. T. Williams	Salary for March	90.00
4	M. H. Perry	Salary from Mar. 11 to 31	70.34
4	W. A. Shaw	Salary for March	77.50
4	H. J. Penrod	do	129.20
8	A. B. Crane	do	86.10
8	J. W. Schaefer	do	68.76
11	Benj. P. Cooper	Salary from Mar. 7 to 31	16.13
11	H. J. Penrod	Salary from Apr. 1 to 5	20.60
12	Edward Lennox	Salary from Mar. 16 to 24	13.50
18	Wm. A. Oakey	Salary from Mar. 21 to Apr. 6	40.00
18	H. E. Wilkinson	Salary for March	102.83
22	J. H. Young	Salary for Apr. 7	2.50
May	Chas. Adie	Salary for April	65.00
1	F. H. Brandenburg	do	92.83
1	M. H. Bailey	do	50.00
1	Wayland Bailey	do	91.83
1	F. R. Beahan	do	85.00
1	Wm. Bell	do	88.82
1	P. J. Bolton	do	87.82
1	Geo. D. Bouthcer	do	99.83
1	H. B. Boyer	do	100.00
1	G. Duncan Brossier	do	14.00
1	H. R. Boynton	do	72.76
1	Allen Buell	do	85.76
1	John W. Byram	do	87.83
1	Ford A. Carpenter	do	82.76
1	R. M. Crawford	do	90.00
1	John H. Clery	do	85.00
1	F. W. Conrad	do	68.76
1	Thomas S. Collins	do	92.83
1	M. E. Conway	do	59.30
1	Maurice Connell	do	103.83
1	H. H. Curley	do	72.76
1	A. J. Davis	do	85.00
1	R. S. Dimmick	do	60.00
1	Louis Dorman	do	82.76
1	S. C. Emery	do	89.83
1	Jos. P. Talihee	do	59.30
1	John Fitzgerald	do	93.83
1	R. Q. Grant	do	91.83
1	H. W. Grasse	do	39.60
1	Fred Z. Gosewisch	do	89.83
1	Otto B. Hart	do	60.00
1	H. P. Hardin	do	82.76
1	R. M. Hardinge	do	82.40

Expenditures Department of Agriculture for fiscal year ending June 30, 1893—Cont'd.

## WEATHER BUREAU—GENERAL EXPENSES—SALARIES—Continued.

Date.	Name.	Nature of payment.	Total.
1893.			
May 1	E. A. Brown	Salary for April	\$68.76
1	J. H. Harmon	do	98.90
1	M. L. Hearne	do	100.00
1	E. C. Hobbs	do	91.83
1	N. D. Lane	do	102.83
1	R. O. Lazebny	do	69.20
1	William Line	do	90.83
1	C. W. Ling	do	82.76
1	A. Ashenberger	do	82.76
1	P. H. Mell	do	74.20
1	J. H. Melton	do	88.83
1	V. E. Muney	do	30.00
1	F. Newman	do	100.00
1	L. F. Passailaegue	do	87.82
1	Henry R. Patrick	do	69.20
1	M. H. Perry	do	103.83
1	J. C. Piercy	do	90.00
1	E. M. Ravenscroft	do	77.82
1	Geo. Reeder	do	80.00
1	T. R. Ryan	do	121.30
1	Chas. Stewart	do	101.83
1	James P. Sherry	do	89.83
1	J. H. Smith	do	82.40
1	Benj. R. Stuart	do	69.20
1	C. H. Stuller	do	101.83
1	T. M. Tarr	do	91.83
1	Geo. T. Todd	do	82.40
1	L. A. Welsh	do	93.83
1	F. T. Williams	do	90.00
1	J. R. Williams	do	103.83
1	R. O. Williams	do	39.60
1	G. H. Willson	do	102.83
1	William Norrington	do	89.83
1	W. A. Shaw	do	74.20
1	L. H. Murdoch	do	53.11
1	Park Morrill <i>et al.</i>	Salaries for April	383.49
1	W. T. Blythe <i>et al.</i>	do	124.40
1	John Grover <i>et al.</i>	do	110.76
1	D. Fisher <i>et al.</i>	do	153.83
1	Alfred F. Sims <i>et al.</i>	do	171.16
1	C. P. Cronk <i>et al.</i>	do	365.96
1	W. H. Fallon <i>et al.</i>	do	185.66
1	Wm. Davis <i>et al.</i>	do	157.59
1	J. Warren Smith <i>et al.</i>	do	675.98
1	D. Cuthbertson <i>et al.</i>	do	302.20
1	E. H. Emery <i>et al.</i>	do	156.58
1	I. G. Gardiner <i>et al.</i>	do	117.83
1	L. M. Pindell <i>et al.</i>	do	177.59
1	W. B. Stockman <i>et al.</i>	do	334.06
1	G. A. Loveland <i>et al.</i>	do	106.83
1	H. C. Frankenstein <i>et al.</i>	do	591.56
1	S. S. Bassler <i>et al.</i>	do	469.64
1	H. A. McNally <i>et al.</i>	do	102.50
1	Chas. M. Strong <i>et al.</i>	do	404.49
1	F. J. Walz <i>et al.</i>	do	190.59
1	J. J. Gilligan <i>et al.</i>	do	251.99
1	Geo. M. Chappel <i>et al.</i>	do	349.42
1	Edward A. Evans <i>et al.</i>	do	420.06
1	B. H. Bronson <i>et al.</i>	do	213.36
1	D. C. Murphy <i>et al.</i>	do	157.59
1	Peter Wood <i>et al.</i>	do	168.90
1	Geo. W. Felger <i>et al.</i>	do	149.13
1	I. M. Cline <i>et al.</i>	do	346.96
1	H. B. Dick <i>et al.</i>	do	104.20
1	W. E. Butler <i>et al.</i>	do	216.20
1	Frank Ridgway <i>et al.</i>	do	188.20
1	E. J. Glass <i>et al.</i>	do	147.13
1	Samuel W. Glenn <i>et al.</i>	do	226.36
1	C. F. R. Wappenhaus <i>et al.</i>	do	302.90
1	E. R. Demain <i>et al.</i>	do	197.03
1	R. J. Mitchell <i>et al.</i>	do	170.52
1	P. Conner <i>et al.</i>	do	342.18
1	J. D. Blagden <i>et al.</i>	do	93.76
1	Henry Pennywitt <i>et al.</i>	do	103.83
1	W. U. Simons <i>et al.</i>	do	175.16
1	E. H. Clarke <i>et al.</i>	do	265.36
1	Geo. C. Franklin <i>et al.</i>	do	122.83
1	Frank Burke <i>et al.</i>	do	320.42
1	J. A. Ryker <i>et al.</i>	do	191.59

Expenditures Department of Agriculture for fiscal year ending June 30, 1893—Cont'd.

## WEATHER BUREAU—GENERAL EXPENSES—SALARIES—Continued.

Date.	Name.	Nature of payment.	Total.
1893.			
May 1	S. L. Dosher <i>et al.</i>	Salaries for April .....	\$100.33
1	W. M. Wilson <i>et al.</i>	do .....	245.89
1	Geo. Hass Hagan <i>et al.</i>	do .....	113.83
1	W. L. Moore <i>et al.</i>	do .....	419.06
1	E. A. Beals <i>et al.</i>	do .....	181.56
1	A. E. Hackett <i>et al.</i>	do .....	107.40
1	Jas. A. Berry <i>et al.</i>	do .....	151.16
1	J. B. Marbury <i>et al.</i>	do .....	340.42
1	H. J. Cox <i>et al.</i>	do .....	162.13
1	R. E. Kerkam <i>et al.</i>	do .....	469.28
1	E. B. Dunn <i>et al.</i>	do .....	583.72
1	A. B. Crain <i>et al.</i>	do .....	201.00
1	Jos. I. Widmeyer	do .....	108.80
1	Geo. E. Hunt <i>et al.</i>	do .....	223.36
1	Julius G. Linsley <i>et al.</i>	do .....	157.59
1	H. F. Alciatore <i>et al.</i>	do .....	105.00
1	E. C. Easton <i>et al.</i>	do .....	107.76
1	L. M. Dey <i>et al.</i>	do .....	417.52
1	U. G. Meyers <i>et al.</i>	do .....	249.46
1	O. D. Stewart <i>et al.</i>	do .....	252.20
1	B. S. Pague <i>et al.</i>	do .....	328.00
1	W. M. Edmondson <i>et al.</i>	do .....	117.83
1	C. F. von Herrmann <i>et al.</i>	do .....	167.13
1	John J. McLean <i>et al.</i>	do .....	132.83
1	Arthur L. White <i>et al.</i>	do .....	127.43
1	Thomas Gibson <i>et al.</i>	do .....	116.83
1	P. H. Smythe <i>et al.</i>	do .....	156.80
1	James A. Barwick <i>et al.</i>	do .....	128.83
1	Geo. N. Salisbury <i>et al.</i>	do .....	167.59
1	H. B. Hersey <i>et al.</i>	do .....	151.13
1	P. T. Jenkins <i>et al.</i>	do .....	633.59
1	W. H. Hammon <i>et al.</i>	do .....	456.18
1	P. F. Lyons <i>et al.</i>	do .....	267.66
1	B. F. Hough <i>et al.</i>	do .....	153.13
1	C. L. Bozziell <i>et al.</i>	do .....	98.83
1	Chas. A. Smith <i>et al.</i>	do .....	183.58
1	John Craig <i>et al.</i>	do .....	217.89
1	Thomas J. Considine <i>et al.</i>	do .....	111.76
1	T. B. Jennings <i>et al.</i>	do .....	118.83
1	J. E. Lanonette <i>et al.</i>	do .....	177.13
1	E. A. Hanner <i>et al.</i>	do .....	176.16
1	Wm. Burrows <i>et al.</i>	do .....	122.76
1	W. W. Neifert <i>et al.</i>	do .....	89.20
1	R. J. Hyatt <i>et al.</i>	do .....	354.96
1	Fred L. Johnson <i>et al.</i>	do .....	106.83
1	G. P. Chaffee <i>et al.</i>	do .....	222.43
1	J. P. Slaughter <i>et al.</i>	do .....	133.82
1	H. E. Wilkinson	Salary for April .....	102.83
1	W. L. Day	do .....	75.03
1	W. W. Dent <i>et al.</i>	Salaries for April .....	158.20
1	B. A. Blundon <i>et al.</i>	do .....	173.03
1	E. P. Jones <i>et al.</i>	do .....	180.16
1	U. G. Pursell <i>et al.</i>	do .....	96.68
1	H. McP. Baldwin <i>et al.</i>	do .....	97.40
2	M. C. Finn	Salary from Mar. 16 to Apr. 21 .....	74.00
11	Benj. P. Cooper	Salary for April .....	20.00
11	E. W. McGann <i>et al.</i>	Salaries for April .....	128.90
11	Matthew Tierney	Salary, Apr. 6 to May 4 .....	58.00
13	Alice Wright	Salary, Apr. 4 to 17 .....	26.00
13	L. N. Jesunofsky <i>et al.</i>	Salaries for April .....	163.13
19	M. S. Patrick	Salary from Apr. 16 to May 15 .....	19.68
June 1	A. Ashenberger	Salary for May .....	82.76
1	Chas. Adie	do .....	65.00
1	F. H. Brandenburg	do .....	92.83
1	Wayland Bailey	do .....	91.83
1	J. R. Beahan	do .....	85.00
1	Wm. Bell	do .....	88.82
1	P. J. Bolton	do .....	87.82
1	Geo. D. Boucher	do .....	99.83
1	H. R. Boynton	do .....	72.76
1	Allen Buell	do .....	85.76
1	John W. Byram	do .....	87.83
1	Ford A. Carpenter	do .....	82.76
1	Jno. H. Clery	do .....	85.00
1	F. W. Conrad	do .....	68.76
1	M. E. Conway	do .....	61.40
1	Maurice Conneli	do .....	103.83
1	Thomas S. Collins	do .....	92.83
1	H. H. Curley	do .....	72.76

Expenditures Department of Agriculture for fiscal year ending June 30, 1893—Cont'd.

## WEATHER BUREAU—GENERAL EXPENSES—SALARIES—Continued.

Date.	Name.	Nature of payment.	Total.
1893.			
June 1	A. J. Davis	Salary for May	\$85.00
1	R. S. Dimmick	do	60.00
1	Louis Dorman	do	82.76
1	S. C. Emery	do	89.83
1	Jas. P. Fallihee	do	61.40
1	John Fitzgerald	do	93.83
1	R. Q. Grant	do	91.83
1	Fred Z. Gosewisch	do	89.83
1	Otto B. Hart	do	60.00
1	H. P. Hardin	do	82.76
1	R. M. Hardinge	do	85.20
1	M. L. Hearne	do	100.00
1	E. C. Hobbs	do	91.83
1	N. B. Lane	do	102.83
1	R. O. Lazenby	do	71.60
1	William Line	do	90.83
1	C. W. Ling	do	82.76
1	John J. McLean	do	102.83
1	J. H. Melton	do	88.83
1	V. E. Muncy	do	30.00
1	William Norrington	do	89.83
1	L. F. Passalaigue	do	87.82
1	Henry R. Patrick	do	71.60
1	M. H. Perry	do	103.83
1	J. C. Piercy	do	90.00
1	E. M. Ravenscroft	do	77.82
1	George Reeder	do	80.00
1	T. R. Ryan	do	61.40
1	Chas. Stewart	do	101.83
1	James P. Sherry	do	89.83
1	J. H. Smith	do	85.20
1	Benj. R. Stuart	do	71.60
1	C. H. Stuller	do	101.83
1	T. M. Tarr	do	91.83
1	George T. Todd	do	85.20
1	L. A. Welsh	do	93.83
1	J. R. Williams	do	101.83
1	R. O. Williams	do	40.80
1	H. E. Wilkinson	do	102.83
1	G. H. Wilson	do	102.83
1	M. H. Bailey	do	50.00
1	R. M. Crawford	do	90.00
1	F. Newman	do	100.00
1	F. T. Williams	do	90.00
1	C. A. Pague	do	62.00
1	P. H. Mell	do	76.60
1	H. W. Grasse	do	44.17
1	U. G. Meyers <i>et al.</i>	Salaries for May	249.84
1	Fred L. Johnson <i>et al.</i>	do	106.83
1	F. P. Chaffee <i>et al.</i>	do	226.63
1	J. P. Slaughter <i>et al.</i>	do	133.82
1	B. H. Bronson <i>et al.</i>	do	217.56
1	H. F. Alciatore <i>et al.</i>	do	95.00
1	H. McP. Baldwin <i>et al.</i>	do	115.20
1	Park Morrill <i>et al.</i>	do	389.79
1	W. T. Blythe <i>et al.</i>	do	126.20
1	John Grover <i>et al.</i>	do	110.76
1	D. Fisher <i>et al.</i>	do	153.83
1	Alfred F. Sims <i>et al.</i>	do	173.96
1	C. P. Crook <i>et al.</i>	do	305.60
1	W. H. Fallon <i>et al.</i>	do	185.66
1	Wm. Davis <i>et al.</i>	do	157.59
1	J. Warren Smith <i>et al.</i>	do	605.12
1	D. Cuthbertson <i>et al.</i>	do	310.60
1	L. N. Jesunofsky <i>et al.</i>	do	165.23
1	E. H. Emery <i>et al.</i>	do	156.58
1	I. G. Gardiner <i>et al.</i>	do	117.83
1	L. M. Pindell <i>et al.</i>	do	177.59
1	W. B. Stockman <i>et al.</i>	do	343.16
1	G. A. Loveland <i>et al.</i>	do	106.83
1	H. C. Frankenstein <i>et al.</i>	do	898.20
1	S. S. Bassler <i>et al.</i>	do	473.84
1	H. A. McNally <i>et al.</i>	do	105.00
1	J. H. Harmon <i>et al.</i>	do	122.20
1	Chas. M. Strong <i>et al.</i>	do	417.82
1	F. J. Walz <i>et al.</i>	do	190.59
1	J. J. Gilligan <i>et al.</i>	do	254.09
1	George M. Chappel <i>et al.</i>	do	355.72
1	Edward A. Evans <i>et al.</i>	do	431.16

Expenditures Department of Agriculture for fiscal year ending June 30, 1893—Cont'd.

## WEATHER BUREAU—GENERAL EXPENSES—SALARIES—Continued.

Date.	Name.	Nature of payment.	Total.
1893.			
June 1	D. C. Murphy <i>et al.</i>	Salaries for May	\$157.59
1	Peter Wood <i>et al.</i>	do	172.20
1	I. M. Cline <i>et al.</i>	do	355.36
1	Geo. W. Felger <i>et al.</i>	do	151.23
1	H. B. Deck <i>et al.</i>	do	106.60
1	W. E. Butler <i>et al.</i>	do	222.60
1	Frank Ridgeway <i>et al.</i>	do	193.60
1	E. J. Glass <i>et al.</i>	do	149.23
1	Samuel W. Glenn <i>et al.</i>	do	230.56
1	C. F. R. Wappenhause <i>et al.</i>	do	309.20
1	E. R. Demain <i>et al.</i>	do	199.43
1	A. J. Mitchell <i>et al.</i>	do	170.52
1	P. Conner <i>et al.</i>	do	277.23
1	H. B. Boyer <i>et al.</i>	do	120.20
1	J. D. Bladgden <i>et al.</i>	do	93.76
1	Henry Pennywitt <i>et al.</i>	do	103.83
1	W. N. Simons <i>et al.</i>	do	177.96
1	F. H. Clarke <i>et al.</i>	do	272.96
1	Geo. E. Franklin <i>et al.</i>	do	122.83
1	Frank Burke <i>et al.</i>	do	326.72
1	J. N. Riker <i>et al.</i>	do	191.59
1	S. L. Dosher <i>et al.</i>	do	112.83
1	Geo. Hass Hagen <i>et al.</i>	do	113.83
1	W. M. Wilson <i>et al.</i>	do	247.99
1	W. L. Moore <i>et al.</i>	do	433.16
1	E. A. Beals <i>et al.</i>	do	185.16
1	A. E. Hacket <i>et al.</i>	do	110.20
1	Jas. A. Barry <i>et al.</i>	do	153.96
1	J. B. Marbury <i>et al.</i>	do	346.72
1	B. A. Blundon <i>et al.</i>	do	185.43
1	H. J. Cox <i>et al.</i>	do	164.23
1	Robt. E. Kerkam <i>et al.</i>	do	476.28
1	E. W. McGann <i>et al.</i>	do	132.20
1	E. B. Dunn <i>et al.</i>	do	678.02
1	A. B. Crane <i>et al.</i>	do	208.00
1	Jos. I. Widenger <i>et al.</i>	do	112.40
1	Geo. E. Hunt <i>et al.</i>	do	288.96
1	Julius G. Linsley <i>et al.</i>	do	157.59
1	W. W. Dent <i>et al.</i>	do	163.60
1	E. C. Easton <i>et al.</i>	do	107.76
1	L. M. Dey <i>et al.</i>	do	424.52
1	O. D. Stewart <i>et al.</i>	do	260.60
1	E. P. Jones <i>et al.</i>	do	182.96
1	B. S. Pague <i>et al.</i>	do	339.00
1	W. M. Edmondson <i>et al.</i>	do	117.83
1	C. F. von Herrmann <i>et al.</i>	do	169.23
1	Cyrus Ellenberger <i>et al.</i>	do	91.40
1	Arthur B. White <i>et al.</i>	do	123.63
1	Thos. Gibson <i>et al.</i>	do	116.83
1	James A. Barwick <i>et al.</i>	do	190.23
1	P. H. Smith <i>et al.</i>	do	161.40
1	G. N. Salisbury <i>et al.</i>	do	167.59
1	H. B. Hersey <i>et al.</i>	do	153.23
1	P. T. Jenkins <i>et al.</i>	do	522.79
1	W. H. Hammon <i>et al.</i>	do	482.48
1	P. F. Lyons <i>et al.</i>	do	273.96
1	B. F. Hough <i>et al.</i>	do	155.23
1	C. L. Bozzell <i>et al.</i>	do	108.83
1	Chas A. Smith <i>et al.</i>	do	183.53
1	John Craig <i>et al.</i>	do	219.99
1	U. G. Purssell <i>et al.</i>	do	105.20
1	Thomas J. Considine <i>et al.</i>	do	111.76
1	J. E. Lanonette <i>et al.</i>	do	179.23
1	T. B. Jennings <i>et al.</i>	do	118.83
1	E. A. Hamner <i>et al.</i>	do	178.96
1	Wm. Burrows <i>et al.</i>	do	122.76
1	W. W. Neifert <i>et al.</i>	do	91.60
1	R. J. Hyatt <i>et al.</i>	do	363.36
2	Joseph F. Henry <i>et al.</i>	Salary from April 28 to May 13	28.00
3	W. A. Shaw	Salary for May	76.60
10	E. B. Burkheimer	Salary from May 26 to 29	5.25
10	C. McGregor	Salary from May 23 to 31	7.26
16	H. S. Nichols	Salary from June 1 to 15	29.67
19	A. J. Wallace	Salary from May 16 to 31	10.32
30	Evelyn B. Baldwin	Salary from June 1 to 25	49.45
	Total for fourth quarter		82,533.12

Expenditures Department of Agriculture for fiscal year ending June 30, 1893—Cont'd.

## WEATHER BUREAU—GENERAL EXPENSES—SALARIES—Continued.

Date.	Name.	Nature of payment.	Total.
<i>Supplemental.</i>			
1893.			
July 1	Chas. Adie	Salary for June	\$65.00
	F. H. Bradenburg	do	92.83
	M. H. Bailey	do	50.00
	Wayland Bailey	do	91.83
	F. R. Beahan	do	85.00
	Wm. Bell	do	88.82
	P. J. Bolton	do	87.82
	Geo. D. Boucher	do	99.83
	H. R. Boynton	do	72.76
	Allen Buell	do	85.76
	John W. Byram	do	87.83
	Ford A. Carpenter	do	82.76
	F. W. Conrad	do	68.76
	M. E. Conway	do	59.30
	Maurice Connell	do	103.83
	Thos. S. Collins	do	92.83
	Paul Daniels	do	89.83
	A. J. Davis	do	85.00
	R. S. Dimmick	do	60.00
	Louis Dorman	do	82.76
	S. C. Emery	do	89.83
	Jos. P. Falibee	do	59.30
	John Fitzgerald	do	93.83
	R. Q. Grant	do	91.83
	H. W. Grasse	do	49.50
	Fred. Z. Gosewisch	do	89.83
	Otto B. Hart	do	60.00
	H. P. Hardin	do	82.76
	R. M. Harding	do	82.40
	M. L. Hearne	do	100.00
	E. C. Hobbs	do	91.83
	N. D. Lane	do	102.83
	R. O. Lazembey	do	69.20
	Willian Line	do	90.83
	C. W. Ling	do	82.76
	P. H. Mell	do	74.20
	J. H. Melton	do	88.83
	Louis Muhlnier	do	59.00
	V. E. Muncy	do	30.00
	William Norrington	do	89.83
	L. F. Passailaigue	do	87.82
	M. H. Perry	do	103.83
	J. C. Piercy	do	90.00
	E. M. Ravenscroft	do	77.82
	Geo. Reeder	do	80.00
	Chas. Stewart	do	101.83
	James P. Sherry	do	89.80
	J. H. Smith	do	82.47
	Geo. W. Scott	do	72.76
	Benj. R. Stuart	do	69.20
	C. H. Stuller	do	101.83
	L. M. Tarr	do	91.83
	Geo. T. Todd	do	82.40
	L. A. Welsh	do	93.83
	F. L. Williams	do	90.00
	J. R. Williams	do	103.83
	G. H. Willson	do	102.83
	C. McGregor	do	25.00
	R. O. Williams	do	39.50
	H. E. Wilkinson	do	102.83
	C. A. Pague	do	60.00
	H. H. Cusley	do	72.76
	R. M. Crawford	do	90.00
	F. Newman	do	100.00
	A. Ashenberger	do	82.76
	W. A. Shaw	do	74.20
	Leon Guthrie	do	25.00
	H. McP. Baldwin <i>et al.</i>	Salaries for June	112.40
	Park Morrill <i>et al.</i>	do	383.49
	W. T. Blythe <i>et al.</i>	do	124.40
	Jno. Groven <i>et al.</i>	do	110.76
	D. Fisher <i>et al.</i>	do	153.86
	Alfred F. Sims <i>et al.</i>	do	171.13
	C. P. Cronk <i>et al.</i>	do	297.10
	W. H. Fallon <i>et al.</i>	do	185.66
	Wm. Davis <i>et al.</i>	do	157.59
	J. Warren Smith <i>et al.</i>	do	593.22
	D. Cuthbertson <i>et al.</i>	do	302.20

Expenditures Department of Agriculture for fiscal year ending June 30, 1893—Cont'd.

## WEATHER BUREAU—GENERAL EXPENSES—SALARIES—Continued.

Date.	Name.	Nature of payment.	Total.
<i>Supplemental—Continued.</i>			
1893.			
July 1	L. N. Jesunofsky <i>et al.</i>	Salaries for June	\$163.13
1	E. H. Emery <i>et al.</i>	do	156.58
1	L. G. Gardiner <i>et al.</i>	do	117.83
1	L. M. Pirdell <i>et al.</i>	do	177.59
1	W. B. Stockman <i>et al.</i>	do	334.06
1	H. C. Frankenfield <i>et al.</i>	do	815.84
1	S. S. Bassler <i>et al.</i>	do	469.64
1	H. A. McNally <i>et al.</i>	do	105.00
1	J. H. Harmon <i>et al.</i>	do	118.90
1	Chas. M. Strong <i>et al.</i>	do	415.56
1	F. J. Walz <i>et al.</i>	do	190.59
1	J. J. Gilligan <i>et al.</i>	do	251.99
1	Geo. M. Chappel <i>et al.</i>	do	349.42
1	Edward A. Evans <i>et al.</i>	do	429.52
1	B. H. Bronson <i>et al.</i>	do	213.36
1	D. C. Murphy <i>et al.</i>	do	157.59
1	Peter Wood <i>et al.</i>	do	168.90
1	Geo. W. Felger <i>et al.</i>	do	149.13
1	H. B. Dick <i>et al.</i>	do	104.20
1	W. E. Butler <i>et al.</i>	do	216.20
1	Frank Ridgway <i>et al.</i>	do	188.20
1	E. J. Glass <i>et al.</i>	do	147.13
1	Samuel W. Glenn	do	226.36
1	C. F. R. Wappenhauß <i>et al.</i>	do	362.20
1	E. R. Demain <i>et al.</i>	do	197.03
1	A. J. Mitchell <i>et al.</i>	do	170.52
1	P. Conner <i>et al.</i>	do	279.42
1	H. B. Boyer <i>et al.</i>	do	120.00
1	J. D. Blagden <i>et al.</i>	do	93.76
1	Henry Pennywitt <i>et al.</i>	do	183.83
1	W. N. Simons <i>et al.</i>	do	175.16
1	F. H. Clarke <i>et al.</i>	do	266.66
1	George E. Franklin <i>et al.</i>	do	122.83
1	Frank Burke <i>et al.</i>	do	320.42
1	J. N. Ryker <i>et al.</i>	do	191.59
1	Henry R. Patrick <i>et al.</i>	do	89.20
1	George Hass Hagan <i>et al.</i>	do	196.59
1	W. M. Wilson <i>et al.</i>	do	245.89
1	W. L. Moore <i>et al.</i>	do	424.06
1	Edward H. Beals <i>et al.</i>	do	108.80
1	James H. Barry <i>et al.</i>	do	151.16
1	S. L. Dosher <i>et al.</i>	do	112.83
1	J. B. Marbury <i>et al.</i>	do	281.12
1	B. A. Blundon <i>et al.</i>	do	183.03
1	H. J. Cox <i>et al.</i>	do	162.13
1	E. W. McGann <i>et al.</i>	do	128.90
1	Robert E. Kirkam <i>et al.</i>	do	469.28
1	E. B. Dunn <i>et al.</i>	do	666.12
1	A. B. Crane <i>et al.</i>	do	141.70
1	John J. Wedmeyer <i>et al.</i>	do	168.70
1	George C. Hunt <i>et al.</i>	do	282.66
1	Julius G. Linsley <i>et al.</i>	do	157.59
1	H. F. Alciatore <i>et al.</i>	do	95.00
1	W. W. Dent <i>et al.</i>	do	158.20
1	E. C. Easton <i>et al.</i>	do	107.76
1	L. M. Dey <i>et al.</i>	do	417.52
1	U. G. Myers <i>et al.</i>	do	214.46
1	O. D. Stewart <i>et al.</i>	do	252.20
1	E. P. Jones <i>et al.</i>	do	180.16
1	B. S. Pague <i>et al.</i>	do	328.00
1	W. M. Edmondson <i>et al.</i>	do	117.83
1	C. F. von Herrmann <i>et al.</i>	do	167.13
1	John J. McLean <i>et al.</i>	do	132.83*
1	Arthur L. White <i>et al.</i>	do	127.43
1	Thomas Gibson <i>et al.</i>	do	116.83
1	P. F. Smyth <i>et al.</i>	do	156.80
1	Jas. A. Barwick <i>et al.</i>	do	188.13
1	Geo. N. Salisbury <i>et al.</i>	do	167.59
1	H. B. Hersey <i>et al.</i>	do	151.13
1	P. F. Jenkins <i>et al.</i>	do	484.46
1	W. H. Hammon <i>et al.</i>	do	451.18
1	P. F. Lyons <i>et al.</i>	do	267.66
1	B. F. Hough <i>et al.</i>	do	153.13
1	C. L. Bozzell <i>et al.</i>	do	108.83
1	Chas. A. Smith	do	183.58*
1	John Craig <i>et al.</i>	do	217.89
1	U. G. Purssell <i>et al.</i>	do	102.40
	Thomas J. Considine <i>et al.</i>	do	111.76

Expenditures Department of Agriculture for fiscal year ending June 30, 1893—Cont'd.

## WEATHER BUREAU—GENERAL EXPENSES—SALARIES—Continued.

Date.	Name.	Nature of payment.	Total.
<i>Supplemental—Continued.</i>			
1893.			
July 1	J. E. Lanonette <i>et al.</i>	Salaries for June .....	\$177.13
1	E. A. Hanner <i>et al.</i>	do .....	176.16
1	W. M. Burrows <i>et al.</i>	do .....	122.76
1	W. W. Neifert <i>et al.</i>	do .....	89.20
1	Fred L. Johnson <i>et al.</i>	do .....	106.83
1	F. P. Chaffee <i>et al.</i>	do .....	222.43
1	F. P. Slaughter <i>et al.</i>	do .....	133.82
1	R. J. Hyatt <i>et al.</i>	do .....	272.20
1	A. E. Hackett <i>et al.</i>	do .....	107.40
1	T. B. Jennings <i>et al.</i>	do .....	118.83
1	I. M. Cline <i>et al.</i>	do .....	346.96
3	John H. Clery <i>et al.</i>	Salary for June .....	85.00
3	G. A. Loveland <i>et al.</i>	do .....	91.83
5	James B. Colson <i>et al.</i>	Salary from June 13 to 24 .....	22.00
7	Joseph F. Henry	Salary from June 15 to 20 .....	10.00
Aug. 9	F. W. Smith	Salary from June 16 to 30 .....	30.00
	Total supplemental .....		27,249.68

## RECAPITULATION.

Total first quarter .....	\$54,960.56
Total second quarter .....	81,623.98
Total third quarter .....	81,291.83
Total fourth quarter .....	82,533.12
Supplemental .....	27,249.68
<b>Total</b> .....	<b>327,659.17</b>

## WEATHER BUREAU STATIONS ON MIDDLE AND THUNDER BAY ISLANDS, IN LAKE HURON.

Date.	Name.	Nature of payment.	Total.
<i>1892.</i>			
Sept. 14	E. L. Bugbee	Traveling expenses, August .....	\$37.32
26	Detroit, Bay City and Alpena R. R. Co.	Transportation .....	7.55
26	Pennsylvania R. R. Co.	do .....	14.25
	Total first quarter .....		59.12
Oct. 19	Michigan Central R. R. Co.	Transportation .....	7.55
Nov. 25	O'Brien & Sleator	Furnishing names in Middle Isle .....	1.00
25	Joseph H. Cobb	Repairing papers for telegraph line .....	2.00
Dec. 1	J. C. Denton	Electric supplies .....	59.25
1	Standart Bros.	Wire nails, etc .....	9.28
9	The Detroit and Cleveland Steam Navigation Co.	Transportation .....	13.00
10	Telephone and Telegraph Construction Co.	Galvanized iron wire .....	10.85
10	Paul D. Connor	Services and expenses, November .....	127.50
14	G. W. Isaacs	Services, Nov. 15 to 30 .....	27.00
14	T. Hooley	Services, Nov. 17 to 30 .....	28.75
14	Frank Burns	do .....	23.00
14	F. M. Ellsworth	Services, Nov. 17 to 26 .....	21.25
14	A. E. Isaacs	Services, Nov. 17 to 30 .....	23.00
14	Jas. H. Burns	do .....	21.00
14	J. McCosh	do .....	23.00
	Total second quarter .....		397.43
1893.			
Jan. 2	Joseph H. Cobb	Repairing papers for telegraph lines .....	8.00
11	T. Hooley <i>et al.</i>	Salaries, November and December .....	377.12
11	Potter Bros.	Dynamite cartridges, etc .....	46.62
11	James C. Denton	Telegraph poles .....	329.40
11	James E. Denton	Hire of team, etc .....	90.10
11	Monaghan & Co.	Telegraph poles .....	292.80
11	Paul D. Connor	Expenses, etc., November and December .....	151.20
17	D. H. Youngs	Services, Nov. 17 to Dec. 24 .....	40.50
17	Michigan Central R. R. Co.	Transportation .....	7.55
23	Thompson C. Gill & Co.	Iron galvanized wire .....	358.80
23	Bishop Gutta Percha Co.	Telegraph cable .....	7,500.00
Feb. 2	Baltimore and Ohio R. R. Co.	Transportation .....	14.25

Expenditures Department of Agriculture for fiscal year ending June 30, 1893—Cont'd.

## WEATHER BUREAU—GENERAL EXPENSES—SALARIES—Continued.

Date.	Name.	Nature of payment.	Total.
1893.			
Feb. 7	J. E. Denton	Hauling, etc.	\$75.00
11	Detroit, Bay City and Alpena R. R. Co.	Transportation	8.75
	Total third quarter		9,300.09
Apr. 14	Pennsylvania Co.	Transporting P. D. Connor, Dec. 30	13.50
June 12	Royce & Marean	Electrical supplies	92.10
	Total fourth quarter		105.60
July 3	J. E. Denton	Telegraph poles, etc.	87.50
3	Patrick Eagan	do	13.20
7	Paul D. Connor	Services for June	100.00
Aug. 10	Pennsylvania R. R. Co.	Transporting J. W. Connor in May	20.60
11	Thomas F. Hooley <i>et al.</i>	Salaries for June	194.75
11	Fred M. Ellsworth <i>et al.</i>	Salaries for July	150.00
11	Donald McKenzie	Services and material, July 25	45.36
11	do	Meals and lodging for P. D. Connor, June 6 to 9.	9.26
11	Chas. Golling	Meals and lodging, June 1 to 22	42.75
11	F. W. Gilchrist	Hire of tug, etc., July 7	260.00
11	James M. Johnson	Building shed	15.00
11	John D. Persons	Meals and lodging furnished J. D. Connor, June 12 to 17.	35.00
11	Paul D. Connor	Salary and expenses, May to August	98.32
11	J. E. Denton	Services and material, July 10 to 31	46.55
11	do	Livery hire, June and July	122.00
17	Monaghan & Co	Telegraph poles	3.00
17	James Helpes	Repairing drills, etc.	4.30
17	James M. Johnson	Labor and material	21.65
17	Potter Bros.	Hardware, etc.	61.93
24	Detroit, Bay City and Alpena R. R. Co.	Transporting P. D. Connor, July 22	7.55
Sept. 2	Fred A. Rice	Locating telegraph poles	2.50
2	Arthur Jermin	Removing telegraph poles	2.00
2	James McLennan	do	10.12
2	Geo. L. McDonald	do	10.12
2	J. E. Denton	Hire of team	6.00
2	Fred W. Hagan	Cartridges, etc.	3.75
2	Owen Fox	Removing telegraph poles	7.50
2	E. C. Ewer	Transferring wires	2.00
13	Michigan Central R. R. Co.	Transporting P. D. Connor, July 23	14.25
13	Steam Gauge and Lantern Co.	Lanterns	86.00
Oct. 2	Bishop Gutta Percha Co.	Electricians' traveling expenses, July	172.70
	Total supplemental		1,666.00

## RECAPITULATION.

Total first quarter	\$59.12
Total second quarter	397.43
Total third quarter	9,300.09
Total fourth quarter	105.60
Supplemental	1,666.00
Total	11,528.24



